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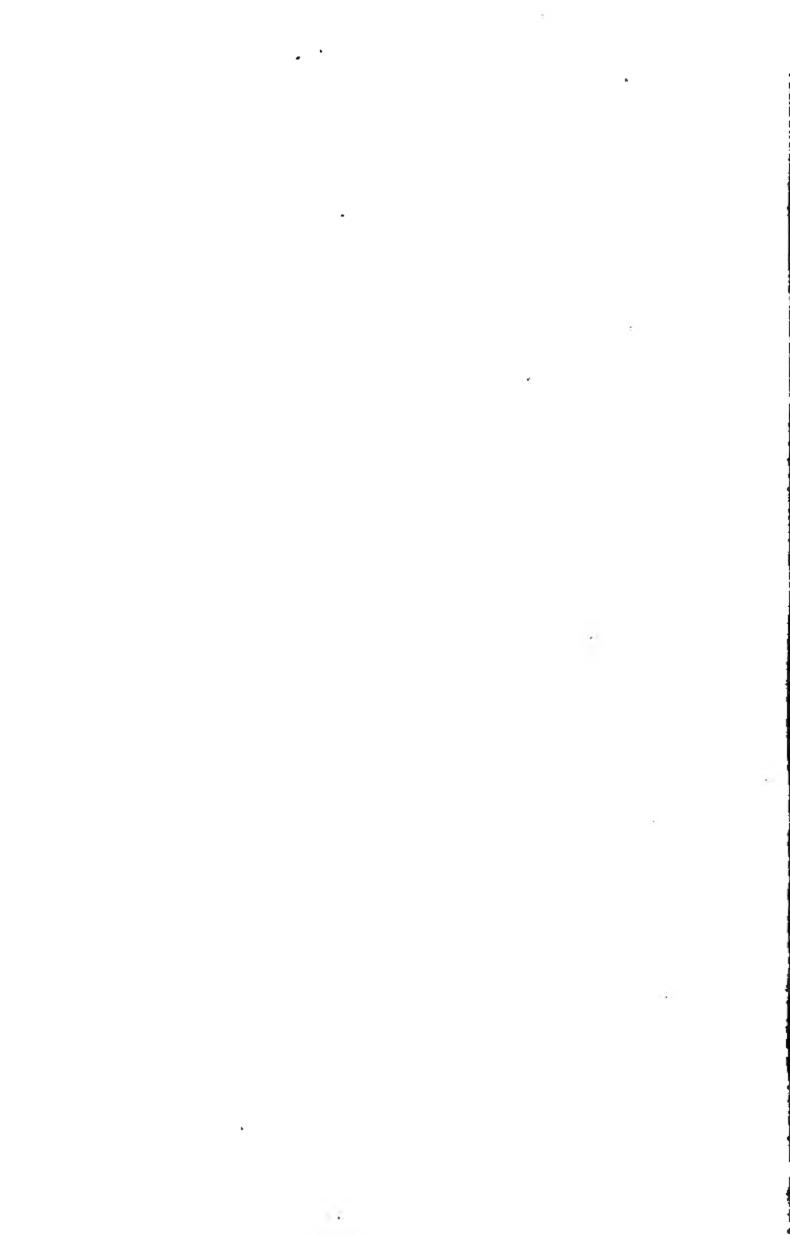
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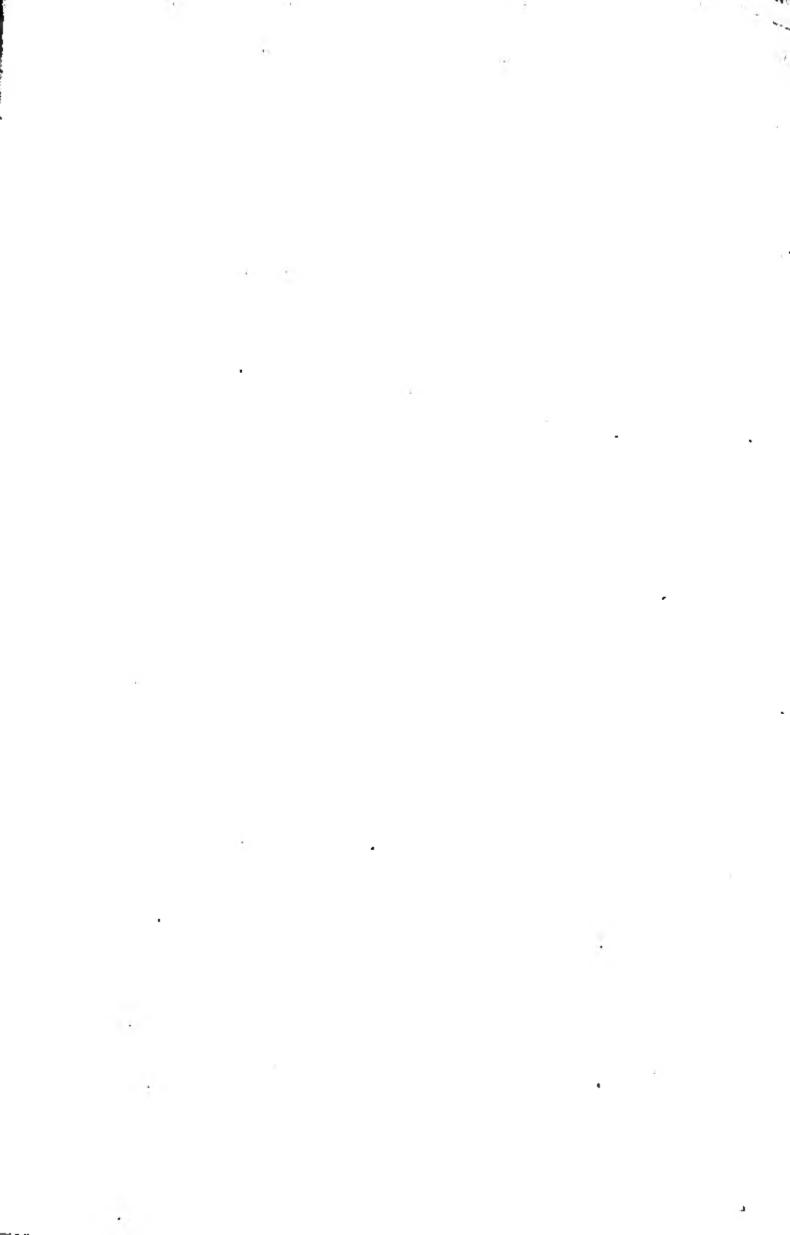
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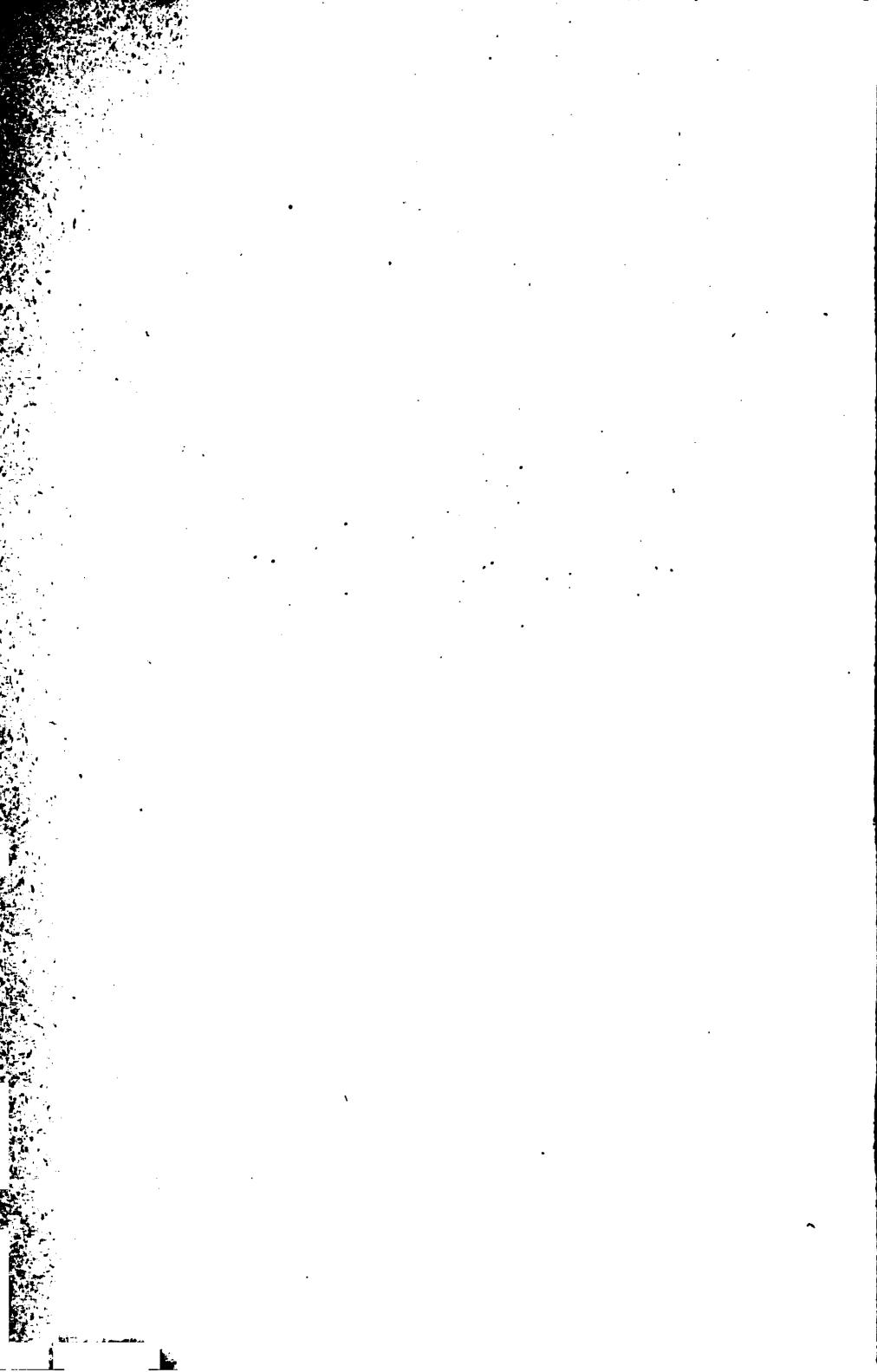
ALEX. HERON, Sec'y,

ACCEPTABLE.

INDIANAPOLIS, IND











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THIRTIETH ANNUAL REPORT

OF THE

INDIANA

State Board of Agriculture.

VOLUME XXII.

1880.

INCLUDING THE PROCEEDINGS OF THE ANNUAL MEETING OF 1881.

TO THE GOVERNOR.

INDIANAPOLIS: CARLON & HOLLENBECK, PRINTERS AND BINDERS. 1881.

COF INDIANA, EXECUTIVE DEPARTMENT.

ch 19, 1881; examined by the Governor and by him e of the Secretary of State, to be published, as may the Board of Commissioners of Public Printing and FRANK H. BLACKLEDGE,

Secretary.

office of Secretary of State, March 19, 1881. E. R. HAWN,

Secretary of State.

Indianapolis, Ind., February, 1881.

o His Excellency,

ALBERT G. PORTER,

Governor of Indiana:

Sir.—In compliance with the act of the General Assembly aproved February 1, 1852, we have the honor to submit herewith a Annual Report of the Indiana State Board of Agriculture for the year ending December 31, 1880, together with such matter as is deemed interesting and useful.

Very respectfully,

W. H. RAGAN, President.

ALEX. HERON, Secretary.

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OFFICERS OF THE INDIANA STATE BOARD.

(ELECTED BY THE BOARD OF AGRICULTURE.)

OFFICERS FOR 1880.

HON. W. H. RAGAN	President.
HENRY T. SAMPLE	Vice-President
ALEX. HERON	Secretary.
MAJ. JAMES A. WILDMAN	Treasurer.
HON. FIELDING BEELER	

EXECUTIVE COMMITTEE.

HON. W. H. RAGAN, President ex-officio.

HON. JACOB MUTZ.

JOHN P. BARNS.

W. B. SEWARD.

CAPT. H. C. MEREDITH.

MEMBERS OF THE STATE BOARD OF AGRI-CULTURE 1880.

(ELECTED BY THE DELEGATES FROM AGRICULTURAL SOCIETIES.)

- 1st District—Robert Mitchell, Princeton, Gibson county.
- 2d District-Hon. R. P. Haynes, Washington, Daviess county.
- 3d District-B. H. Hancock, Fredericksburg, Washington county.
- 4th District-Hon. W. B. Seward, Bloomington, Monroe county.
- 5th District—J. W. Cofield, Rising Sun, Ohio county.
- 6th District-S. R. Quick, Columbus, Bartholomew county.
- 7th District—Hon. Jacob Mutz, Edinburg, Shelby county.
- 8th District-Dempsey Seybold, Bridgeton, Parke county.
- 9th District—Hon. W. H. Ragan, Clayton, Hendricks county.
- 10th District-Henry C. Meredith, Cambridge City, Wayne county.
- 11th District-John P. Barns, Anderson, Madison county.
- 12th District—H. T. Sample, Lafayette, Tippecanoe county.
- 18th District-John N. Turner, Marion, Grant county.
- 14th District—L. B. Custer, Logansport, Cass county.
- 15th District—Hon. John Sutherland, Laporte, Laporte county.
- 16th District-Hon. R. M. Lockhart, Waterloo, DeKalb county.

INDIANA AGRICULTURAL DISTRICTS.

The State Board of Agriculture consists of sixteen members, chosen from the following districts:

1st District—Posey, Vanderburgh, Gibson, Warrick and Spencer counties.

2d District—Pike, Dubois, Martin, Daviess, Knox and Sullivan counties.

3d District—Perry, Crawford, Harrison, Floyd and Washington counties. .

4th District—Orange, Lawrence, Jackson, Monroe, Greene, Brown and Scott counties.

5th District—Clark, Jefferson, Switzerland, Jennings, Ohio and Ripley counties.

6th District—Dearborn, Franklin, Decatur, Bartholomew and Rush counties.

7th District—Johnson, Shelby, Morgan and Marion counties.

8th District-Owen, Clay, Vigo, Parke and Vermillion counties.

9th District—Putnam, Hendricks, Montgomery and Boone counties.

10th District—Fayette, Wayne, Union and Henry counties.

11th District—Randolph, Delaware, Madison, Hancock, Hamilton, Tipton and Jay counties.

12th District—Clinton, Fountain, Tippecanoe, Warren, Newton, Benton and White counties.

13th District—Blackford, Grant, Huntington, Wells, Adams, Wabash and Howard counties.

14th District—Carroll, Cass, Miami, Fulton, Pulaski, Jasper and Starke counties.

15th District—Marshall, Laporte, St. Joseph, Elkhart, Lake and Porter counties.

16th District—Allen, Lagrange, Whitley, DeKalb, Noble, Steuben and Kosciusko counties.

Chosen for two years, the term of service of one-half expires each year, to-wit: Those representing the first, second, third, fourth, seventh, fourteenth, fifteenth and sixteenth, expired at the annual meeting of 1880, and those representing the fifth, sixth, eighth, ninth, tenth, eleventh, twelfth and thirteenth districts expire at the annual meeting in January, 1881.

STATE INDUSTRIAL ASSOCIATIONS.

OFFICERS FOR THE YEAR 1881.

HEADQUARTERS IN THE AGRICULTURAL ROOMS, CORNER OF TENNESSEE AND MARKET STREETS.

Indiana State Board of Agriculture.

President, Hon. R. M. Lockhart, Waterloo, DeKalb county; Secretary, Alex. Heron, Indianapolis, Marion county. Organized May, 1854.

Indiana Horticultural Society.

President, Sylvester Johnson, Irvington, Marion county; Secretary, Hon. W. H. Ragan, Clayton, Hendricks county. Organized 1842.

State Association of Short-Horn Breeders. :

President, Hon. Thomas Nelson, Bloomingdale, Parke'county; Secretary, T. W. W. Sunman, Spades, Ripley county. Organized May, 1872.

Indiana Dairymen's Association.

President, Asher Kellum, Friendswood, Hendricks county; Secretary, G. C. Stevens, Indianapolis. Organized September, 1876.

Indiana Swine Breeders' Association.

President, A. S. Gilmore, Greensburg, Decatur county; Secretary, W. M. Wiley, Augusta Station, Marion county. Organized January, 1877.

Indiana Wool Grower's Association.

President, Fielding Beeler, Indianapolis, Marion county; Secretary, J. W. Robe, Greencastle, Putnam county. Organized October, 1876.

Indiana Rultry Breeders' Association.

President, H. C. G. Bals, Indianapolis, Marion county; Secretary, Dr. W. J. Elstun, Indianapolis, Marion county. Organized, January, 1875.

Indiana Bee Keepers' Association.

President, Dr. J. H. Orear, Lizton, Hendricks county; Secretary, F. L. Daugherty, Indianapolis. Organized October, 1879.

Indiana Tile Makers' Association.

President, J. T. Stringer, Kokomo, Howard county; Secretary, J. J. Billingsley, Marion county. Organized November, 1876.

Indiana Woman's State Industrial Association.

President, Mrs. Dr. M. E. Haggart, Indianapolis, Marion county; Secretary, Mrs. F. M. Adkinson, Indianapolis, Marion county.

A TABLE, Showing the Officers, Place and Receipts of each Fair held by the State Board of Agriculture.

Year.	Pretident.	Beoretair.	Treasure.	Gen, Superintendent.	Place of Pair.	Preniums Paid	Receipts of Fair.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A - D - D - D - D - D - D - D - D - D -		Control A. Darlos	W. T. Debnis. J. J. W. Oal Oal Calvin Fletcher, Jr. Calvin Fletcher, Jr. James L. Bradley. J. A. Grostenor. J. B. Sullivan. J. B. Sullivan. J. B. Sullivan.	Indianapolis Lafayette Madison Todianapolis Indianapolis Indianapolis No Far Indianapolis	344 64 6 44 644. 588 35 5 12 12 12 12 12 12 12 12 12 12 12 12 12	7
1886 1886 1886 1886 1886 1886		Alex. Beron.	Carlos Dickson J. A. Wildman	Jacob Muta. H. W. Osidwell H. W. Aldwell H. W. Aldwell H. J. Howland J. L. Howland J. W. Purhas. F. M. Lockbart R. M. Lockbart R. M. Lockbart Fielding Besier.	Indianapolis		44544444444 445852525 4845485858

A. O. Jumesco filed the office of Tresever for 1573, to the 27th of August, 1573, when he resigned, and Carlos Dickson was appointed to fill the unexpired term.

How —In consequence of the loss of papers, incident to the military occupancy of the rooms of the State Board of Agriculture, during the late war, and Incomplete records preserved, the amount of premiums awarded at the several State Pairs is accessarily incomplete.

LIST OF MEMBERS.

Of the original sixteen corporate members of the Board of Agriculture appointed by the Legislature, but two now survive, as will be seen by referring to the following. (* Represents deceased):

Name.	P. O. Address.	County.	Years of Service Incls've
*Gov. Jos. A. Wright	Indianapolis	Marion	 1851–54
Dr. A. C. Stevenson	Greencastle	Putnam	1851-54
*Jeremiah McBride	*******	Martin	1851-52
*Roland Willard		Kosciusko	1851-52
*Jacob R. Harris	•••••	Switzerland	1851-54
*Henry L. Ellsworth	Lafayette	Tippecanoe	1851-52
*John Ratliff	Eminence	Morgan	1851-52
*Gen. Jos. Orr	Laporte	Laporte	1851-56
David P. Holloway	Richmond	Wayne	1851-54
*John B. Kelly	****************	Warrick	1851-54
*Wm. McLain		Lawrence	1851-52
*Samuel Emerson	Vincennes	Knox	1851-52
*John McMahan	Salem	Washington	1851-52
*Thos. W. Sweeney	Fort Wayne	Allen	1851-52
*George Brown	Shelbyville	Shelby	1851-52
*George Hussey		Vigo	1851-52
*George K. Steele	Rockville	Parke	1852-53
*A. Seward	Bloomington	Monroe	1852-53
*George G. Dunn	Lawrenceburg	Dearborn	1852-53
John Levering	Lafayette	Tippecanoe	1853-54
*Thos. Durham	Terre Haute	Vigo	1853-54
*Jesse Morgan	Rushville	Rush	1853-54
George W. Lane	Aurora	Dearborn	1853-58
L. M. Spaulding		Lagrange	1853-54
L. M. Spaulding Abraham Smith		Knox	1854-55
*Samuel Herriott	Franklin	Johnson	1854-55
David F. Huffstetter	Orleans	Orange	1854_55
*Joseph Allen	Crawfordsville	Montgomerv	1854-55
I. D. G. Nelson	Fort Wayne	Allen	1854-57
*Jas. W. Cockrun	Oakland	Gibson	1854-55
A. J. Hay			

LIST OF MEMBERS—Continued.

Name.	P. O. Address.	County.	Years of Service Incls've.
*J. P. Drake	Indianapolis	Marion	1855–56
*J. A. Matson		Putnam	1855-56
Wm. T. Dennis			
*Geo. D. Wagner		Warren	1855-60
*Maj. Stearns Fisher	Wabash	Wabash	1855-66
*Wm. H. Bennett	Liberty	Union	1855-60
*Jas. D. Williams	Pond Creek Mills		1856-71
Col. S. Vawter			· -
	Vernon		1856-57
Wm. M. Franklin	Spencert		1856-57
Dr. Rufus Haymond		Franklin	1856-57
Dr. R. T. Brown	Crawfordsville	Montgomery	1856–57
Dr. G. B. Graff	Owensville	Gibson	1856-59
Dr. A. C. Stevenson	Greencastle	-	1857-58
Calvin Fletcher, Jr	Indianapolis	Marion	1862-63
Jas. L. Bradley	Edinburgh		1857-58
*Wm. H. Loomis	Indianapolis		1858–61
A. Freeman	Valparaiso	Porter	1858-61
*A. E. Vinton	Indianapolis	Marion	1858-59
Thos. H. Collins	New Albany	Floyd	1858-61
*Wm. Miller	South Bend	St. Joseph	1858-61
*Wm. Duncan	Bedford	Lawrence	1858-61
David G. Rabb	Rising Sun	Ohio	1857-60
*W. H. Bonner	Spring Hill	Decatur	1859-60
Wm. G. Coffin	Annapolis	Parke	1859-62
A. D. Hamrick		Putnam	1859-72
*Dr. Jno. C. Helm			1859-68
*Nathan Piatt	1		1860-63
Dr. G. W. McConnell			1860-61
*D. C. Branham	Madison	Jefferson	1861-62
*Isaac Loder	Lewisville	Henry	1861-64
*Joseph Poole			1861-72
Jno. C. Shoemaker	_		1862-71
*Jno. F ₄ Carr			1862-63
*A. J. Holmes			1862-69
George Crawford		Laporte	1862-63
Hawley Peck	0	Lagrange	1862-63
*Samuel Wiley			1863-64
W. C. Danaldson		Parke	1863-70
Prof. E. T. Cox	New marmony	rosey	1864-69
*Maj. John McCrea J. A. Grosvenor	bioomington	Monroe	1864-69
J. A. Grosvenor	Indianapolis	marion	1864-67
John Sutherland	Laporte	Laporte	1864
Dr. G. W. McConnell	Angola	Steuben	1864-65
Prof. S. H. Thompson	Hanover	Jefferson	1865-66

LIST OF MEMBERS—Continued.

			Years of
Name.	P. O. Address.	County.	Service
			Incls've.
	1		
*D. E. Reese	Lawrenceburgh	Dearborn	1865-68
J. M. Garr	Richmond	Wayne	1865-66
*Benj. North	Rising Sun		1867-72
Alex. Heron		Fayette	1867-70
H. Caldwell	Wabash	Wabash	
Jacob Mutz	Edinburg	Shelby	1868
*Thos. V. Mitchell	New Salem,	Rush	1869-78
Wm. Crint	Anderson	Madison	‡ 1869–75
L. A. Burke	New Harmony	Posey	1870-74
*Geo. A. Buskirk	Bloomington	Monroe	1870-71
*Thos. Dowling	Terre Haute	Vigo	1871-74
A. B. Claypool	Connersville	Fayette	1871-78
*Stephen Davidson	Rochester	Fulton	1870-77
I. D. G. Nelson	Fort Wayne	Allen	1870-78
*F. Basler	Sullivan	Sullivan	
F. C. Johnson	New Albany	Floyd	1872-77
W. B. Seward	Bloomington	Monroe	1872
J. B. Gerard	Aurora	Dearborn	1878-74
W. H. Ragan	Clayton	Hendricks	1878
*H. T. Sample	Lafayette	Tippecanoe	1873-80
R. M. Lockhart	Waterloo	DeKalb	1874
.*J. D. Williams	Wheatland	Knox	‡187 4
Robert Mitchell	Princeton	Gibson	1875
J. V. Milhous	Butlerville	Jennings	1875–76
Thomos Nelson	Bloomingdale	Parke	1875-78
R. P. Haynes	Montgomery	Daviess	1875
T. W. Tuttle	Muncie	Delaware	1876-76
J. W. Cofield	Rising Sun	Oh10	1877-80
Wm. Crim	Anderson	Madison	1877-78
B. H. Hancock	Hancock Station	Harrison	1878
L. B. Custer	Logansport	Cass	1878
8. R. Quick	Columbus	Bartholomew.	1879
Dempsey Seybold	Bridgeton	Parke	1879-80
H. C. Meredith	Cambridge City	Wayne	1879
John P. Barns	Anderson	Madison	1879
John N. Turner	Marion	Grant	1879-80
T. W. W. Sunman	Spades	Ripley	1881
Joseph Gilbert	Terre Haute	Vigo	1881
J. K. O'Neal	Lafayette	Tippecanoe	1881
T. M. Kirkpatrick	Kokomo	Howard.,	1881
A 70 1 1			

[†] Resigned.

|| Filled unexpired term of Mr. Crimf.



METEOROLOGICAL TABLE.

Table Showing Daily and Monthly Means in English inches of Barometer, Corrected for Temperature and Elevation, at Indianapolis, Ind., for Each Day and Month of the Year 1880, as Recorded at the United States Signal Office:

DAILY MEAN BAROMETER.

					3	CONTE	18.					
Date, 1880.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 80	80.234 30.301 30.145 30.065 30.085 30.166 39.912 29.863 30.442 30.402 80.130 30.159 29.930 29.891 29.975 29.728 29.728 29.728 29.778 29.585 29.94 29.836 29.94 29.836 29.778 30.254 80.215 30.065	30.286 30.114 29.747 29.674 30.048 30.149 30.126 30.280 30.690 80.208 29.957 29.758 30.102 29.822 29.578 29.797 29.899 29.752		30.024 29.803 29.554 29.742 29.897 80.096 30.350 30.288 29.971 29.897 29.887 29.763 29.848 29.722 80.017 29.641 29.638 29.743 29.638 29.743 29.743 29.743 29.743 29.743 29.743 29.743 29.743 29.743 29.743 29.743 29.743 29.743 29.743 29.743	\$0.155 \$0.026 \$0.060 \$29.985 \$29.919 \$29.881 \$29.826 \$29.826 \$29.826 \$0.096 \$0.086 \$0.086 \$0.086 \$0.087 \$0.086 \$0.237 \$0.047 \$29.910 \$29.988 \$29.976 \$29.972 \$29.990 \$29.971 \$29.948	30.001 29.945 29.926 29.860 29.838 29.910 29.843 29.811	29.883 29.842 29.853 29.857 29.857 29.959 30.008 29.945 29.960 29.933 29.960 29.826 29.826 29.826 29.826 29.826 29.831 29.811 30.014 80.094 80.042 30.019 30.035 29.974 29.966 30.021 30.015	80.019 89.931 30.040 30.154 30.155 30.155 30.073 29.981 29.988 30.142 30.068 29.963 30.167 30.068 29.963 30.167 30.068 29.9764 29.708 29.9764 29.912 29.912 29.912 29.912 29.912 29.912 29.912 29.912 29.912 29.912 29.912	29.809 29.774 29.854 29.861 29.985 29.966 80.080 30.112 30.138 80.101 80.097 30.123 30.000 29.992 29.986 30.125 30.135 30.0135 30.0135 30.0135 30.0135 30.001 29.952 29.853 29.959 29.853	80.097 29.997 29.910 30.079 29.963 30.108 30.112 30.035 30.056 80.094 30.150 30.283 30.191 29.889 29.716 29.781 30.038 30.119 80.107 29.999 30.139 30.853 29.977 29.944 80.188 80.106 29.908 29.878	30.086 80.036 29.977 29.680 30.061 29.867 30.085 29.699 80.079 80.435 30.313 29.872 80.510 80.159 80.159 80.697 30.745 80.431 80.678 80.431	29.940 30.309 30.309 30.109 29.856 30.266 30.247 30.395 80.670 30.644 30.092 29.707 29.713 29.729 29.902 29.989 29.989 29.989 29.989 30.140 30.211 30.072 30.203 30.285 30.285 30.158 80.175 80.175 80.219 30.180 80.269
31	80 197	•••••	80.032		99.94 5	********	30.031	29.853		80.109	********	30.252

MONTHLY MEAN BAROMETER.

30.026	30 049	30,059	29.946	29.974	29.947	29.957	29.976	30.033	80.062	30.907	30.124
•											

Highest barometer during year, 30.823 English inches.

Lowest barometer during year, 29.126 English inches.

Annual mean barometer, 30.030 English inches.

OTTO SCHÜTZE,

Obs. Serg't Sig. Service, U. S. A.

BOARD OF AGRICULTURE.

METEOROLOGICAL TABLE.

wing Daily and Monthly Mean Temperature at Indi Ind., for Each Day and Month During the Year 1880 ed at the United States Signal Office.

DAILY MEAN THERMOMETER.

•			М	aths.	_Degr	000 Ja	kreb	oit.		
Jan.	Job.	Mar.	April	May.	June.	July	Aug	Sept.	Oct.	Nov.
3 9.8	28.0	85.6	53.8	577	61.5	72.2	76.7	81.7	69 6	44.7
49.7	20.3	45.5	60.2	64.5	65.7	78.9	70 2	76 0	67.2	59.7
5 9 7	\$5.7	55.0	65.5	66.5	68.7	76.7	63.5	79.0	62,5	58.7
16.3	21.7	62 0	61.3	68.2	69.0	79 5	66.7	76.0	63.1	57.0
56 2	80.7	46.2	60.9	71.2	76.5	75.1	71.7	75 0	58.7	44.0
87.0	85.0	45 7	45.6	73.7	69 2	75 7	73.6	76.0	54.T	33.9
53.5	29.2	48.6	39.6	76.5	70.7	78 2	75.0	61 5	58.9	40.2
57.5	40.2	37.7	43.6	78.5	78.7	80.0	76.2	86.0	61.9	46 7
50.2 46.0	34.0 48 0	38 5 34.7	51.5 43.2	67.7 69.0	73.2 82.9	77.0 80.7	76.5 77.0	57.7 62,2	65.9	512
51.0	50.7	39 2	85.0	66.5	88.7	84.0	74.2	67.0	68.7	1114
33.3	61.6	29.0	44.5	68.7	84.0	86.0	78 0	65.5	58 1	43.4 87.0
80.2	88.0	35.5	62.0	64.6	76,7	86.7	76.8	56.0	56.9	38.6
37.5	30.1	32.0	69.0	61 0	76 7	84.7		35.0	64.6	27 0
39.7	85 6	33.0	64.2	68.6	68.0	81.0	74.5	61.5	64.1	29 i
49.5	47.6	29.7	52.5	67.2	70.0	75 7	74.7	68.0	47 9	26 9
49.0	55.7	39.5	53.2	72.7	78.8	73.3	78.2	69,2	39,1	15.0
49.2	38 B	47 6	74.5	78.2	74.2	76.7	82.2	72.8	36.7	12.0
58.0	24.5	43.3	83.2	77.0	74.8	69.5	84.5	69 5	88 5	16.4
44.8	38.7	42 2	65 7	68 2	77 9	64.8	77.0	62.B	51.5	21 7
47.5	37.5	48.0	62.7	58,5	77.6	67.5	78.2	60.7	85.1	7.0
36 5	48.0	48.0	68.6	67.5	79.5	69 5	74.7	89.0	44.5	105
37.5	41.2	45 7	61.0	72.7	81 2	73.2	77.2	63.6	87.1	16.2
40,5	84.0	38.2	59.6	77 2	79 \$	76 0	89.5	69.2	40.6	26.2
42.3	86 2	35 7	62 2	76.9	76.2	77 7	80.7	89.1	5ö.1	20.7
46.0	56.2	48.0	52.0	74.5	76.5	80 2	81.7	65.5	49.2	93.7
51.2	57.0	48.2	58.2	71.6	76.7	77.2	76.5	55.9	43.7	26.9
87.2	80.0	41.5	877	68.0	78.7	75.2	78.5	59.4	44 2	33.2
88 7 46.0	26,5	44.7	54.0 48.6	66.5	66.5	74.2	77 8	52.6	55 5	207
81.2	*****	47.7 63.8		63.7 67.5	78.7	74.7 80.0	77.5 81.0	54.0	48 5	27 0
91.4			447.2			60.0	81.0	******	44.7	
15.7	39.0	42.0	65.6	69.1	74.1	76.6	76.2	65.1	58.8	81.7

OTTO SCHÜTZE

Obs. Serg't Sig. Ser. U. S.

METEOROLOGICAL TABLE.

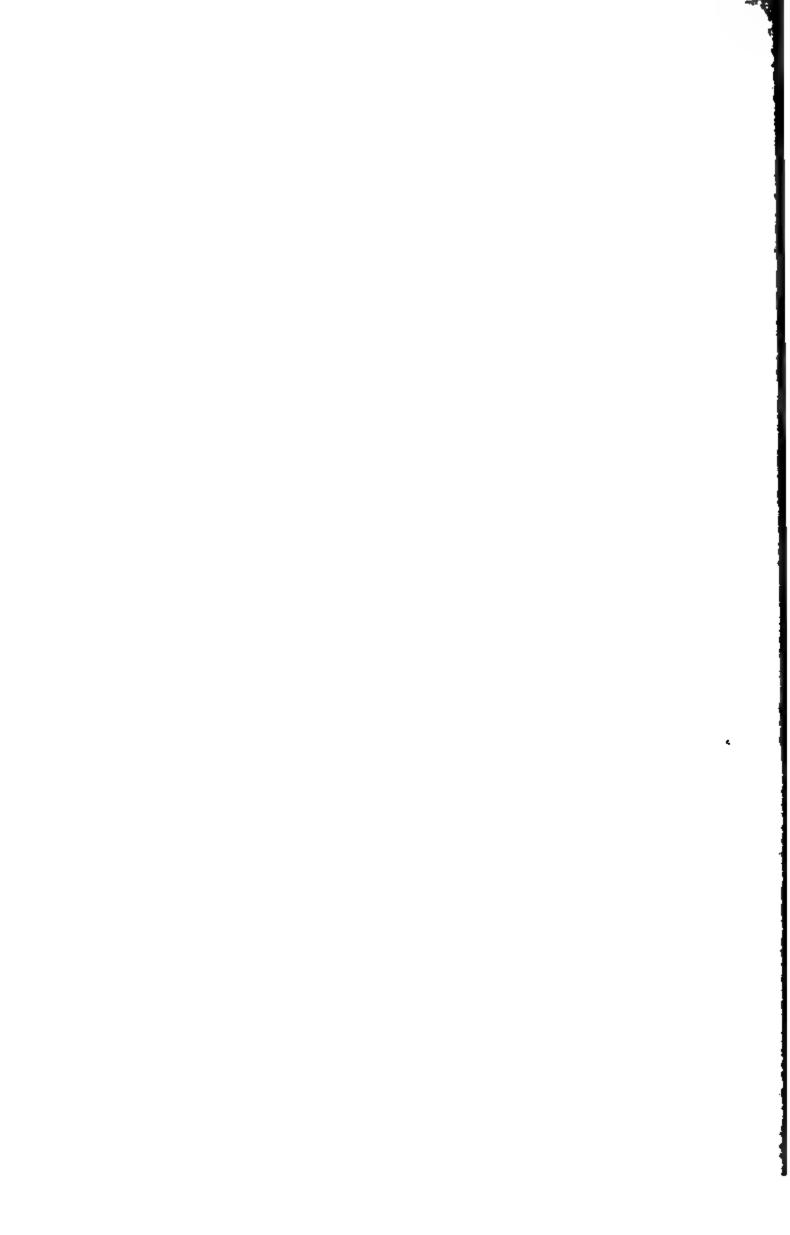
Table Showing Monthly Mean Barometer and Thermometer and Total Amount of Snow or Rainfall, at Indianapolis, Ind., for Each Month of the Year, from 1871 to 1880, Inclusive, as Recorded at the United States Signal Office.

Monthly Mean Barometer-English Inches.

	•				Yes	ars.				
Months.	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1680.
anuary		30,130	30,056	80 120	80.932	80.107	30.160	80,029	80.161	30.02
obruary	00.000	30 008	80.044	30 099	3n 129	30 070	30 156	29 917	30 112	30 D4
farch	29 906	30.043	30.090	30,044	20.999	29.982	30.013	29 912	20 073	30 06
pril	29,801	29.960 29.988	29.896 29.896	80.016 29 940	29.964 29.922	29 978 29,963	29.898 29.992	29 746 29 904	29,989	29.94 29.97
tay	29.851	29.976	29.905	29 995	29.948	29.881	29 907	29 896	29.964	29.84
aly		29.964	29.982	29.954	39 935	29.957	29.931	29.913	29.927	29.95
ugues	29,933	30.032	80 013	29 952	29.945	30.001	29.926	29.876	29 961	29 97
eptember	20.105	29.997	80 032	30 020	30.020	29.954	29 997	80.050	30.081	30.00
etober	30,063	80.095	30.062	30.003	28 999	29 972	29,988	80.098	30.108	50.00
ovember	30.065	30.112	30 010	30.116	80 037	29 990	80 038	30.010	80.078	30,20
December		30.218	30.125	30 165		30.109	30 097			80.11
anuary February farch pril lay	48.0 68.0 68.0 76.0	26.0 80.0 85.0 56.0 64.0 74.0	25.0 30.4 35.5 50.3 64.0 77.0	35.6 36.0 42.2 48.6 66.2 77.4	20.5 21.6 87 8 49 7 62 6 70 8	39.1 37.3 87.7 53.0 66.0 78.1	28.1 39.5 85.5 61.1 62.3 71.7	34.7 39.5 50.3 68.8 61.9 69.8	26.9 30.4 42.7 68.1 66.7 71.4	45. 89. 42. 55. 69. 74.
@ly	75.0	78.0	75.5	78.5	75.9	78.0	76.1	79.6	800	76.
eptember	76.0 63.0	76.0 67.0	75 0 64.0	75 9 69.6	70 3 63.4	75.1 64.6	78.6 66.5	75.7 67.1	70.3 62.7	76 55
ctober	58.0	54 0	51.0	55.5	51.4	51.7	58.6	54.2	62.6	58
ovember	89.0	86.0	37 6	42.4	40.5	41.3	43.1	45.2	45.8	31
ecember		84.4	37 6	35.6	41.5	22.6	46.8	27.0	MW	24
			Total	Rain	fall—.	Inches				
annary		1.17	4.50	8.75	1.01	5 94	1.56	9.38	1 47	6.8
obruary	***	1.41	2.85	4.17	1 88	4.49	1.41	3.10	2.17	3.
darch	3 98	1.31	3.48	5.79	6.23	7.44	5.28	1.23	8.36	4.0
\prllj	1.87	8.26	5 91	4.12	1.29	2.87	2,11	5.51	2 25	6.4
Esy	1.59	3.22	8.89	4.03	5.13	5 11	2 09	8 24	8.38	8.2
1De	2.51	3.28	8.70	5 25	12.20	7.64	6 21	2.25	2.94	8 4
nlv	5 60	10.95	11 29	3.58	13.12	7 48	4.19	4.54	9.40	18.5
Lugust	3 69	2.69	1.32	9.90	3.66	5.86	4.13	2.42	5.71	2:
eptember	4.89	2.61	1 76	1 09 0.36	1.34	3,85	2.04	3.85	6.94	11
otober	1.64	1.07	3.27		2.67 2.04	4.42	8 22	4.78	1.84	3 (
December	3,59 2.39	210	2.46 5.90	4.82 2.79	4.01	0.90	3.64 2.45	2.87 3.95	5.82 5.10	2.0 1.4
			0.50		7.01	0.00	4 40	0.50	V-10	l *

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Obe. Serg't Sig. Service, U. S. A.



STATE BOARD MEETINGS.

AGRICULTURAL ROOMS, JANUARY 8, 1880, 10 O'CLOCK.

Agreeable to call, at the close of the Delegate Board Meeting the Board met, with President Mitchell in the chair, all the members being present.

The minutes of yesterday's proceedings, also all the records of proceedings during State Fair week, were approved and adopted as corrected.

Mr. Sutherland moved that the time for the State Fair of 1880 be fixed for the week commencing September 27th.

Mr. Mutz referred to the suggestion by the ladies that the fair commence the middle of the week, and close the middle of the week following.

Mr. Ragan said an examination of the proceedings of the Board in past years showed that the fair had been held on the week as suggested for many years past.

President Mitchell said the Illinois State Fair wanted to claim our time, and have us change that they might visit our fair.

Mr. Sample regretted very much to conflict with the Illinois fair, as he knew of considerable stock that would be at the Indiana fair if the time was not the same as in Illinois.

Mr. Seybold corroborated this statement.

2—AGR. REPORT.

Mr. Sutherland stated that if our fair was one week earlier we would be in the equinoxial storms.

Messrs. Custer, Meredith, Ragan and Seward expressed themselves in favor of the date mentioned.

The motion carried, and notice for time of fair ordered to be sent to adjoining States without delay.

On motion of Mr. Barns the financial report of the General Superintendent was read and referred to the finance committee, Mr. Lockhart explaining that he had an understanding a year since that all financial transactions went on the books of the Secretary and Treasurer, therefore he did not itemize this report in particulars.

Mr. Ragan, under the head of unfinished business, reported that Mr. Albert Gall had made complaint in regard to issuing two diplomas for display of carpets, etc., at the last State Fair.

President Mitchell explained that the mistake was in having a special committee to pass on and award premiums in that department.

Mr. Seward said it was an unfortunate affair, and the mistake was in the committee on special merits recommending diplomas or making any choice.

The Secretary read the resolution authorizing the special committee; also the wording of the two diplomas referred to, and showed that the two diplomas did not conflict in fact, as one was to Mr. Gall for "the greatest variety," and the other to A. L. Wright for "the largest and finest exhibition" of carpets, rugs, etc.

Motion of Mr. Seward carried. That in order to give expression on the subject the regular committee on general merits had no authority to make awards to competitive exhibitors.

Upon motion, the minutes as above were approved.

.The Board adjourned sine die.

ORGANIZATION OF THE NEW BOARD.

AGRICULTURAL ROOMS, JANUARY 8, 1880.

Agreeable to notice on adjournment of the old Board, the recently elected members met for organization.

On motion, Mr. Mitchell presided.

The roll being called, all the members responded as follows: Robert Mitchell, R. P. Haynes, B. H. Hancock, W. B. Seward, J. W. Cofield, S. R. Quick, Jacob Mutz, Dempsey Seybold, W. H. Ragan, H. C. Meredith, J. P. Barns, H. T. Sample, J. N. Turner, L. B. Custer, John Sutherland and R. M. Lockhart.

On motion, the Board proceeded to the election of officers for the ensuing year, resulting as follows:

President	W. H. Ragan, of Hendricks county.
Vice President	
Secretary	Alex. Heron, of Marion county.
Treasurer	J. A. Wildman, of Marion county.
General Superintende	ntFielding Beeler, of Marion county.

Executive Committee.

Jacob Mutz, of Shelby county.

Wm. B. Seward, of Monroe county.

John P. Barns, of Madison county.

H. C. Meredith, of Wayne county.

Mr. Mutz and Seward were selected to conduct the new President to the chair, which was done with the usual courtesy, being a pleasant duty for all parties.

Mr. Ragan, in a few brief remarks, acknowledged the honor conferred, and expressed his embarrassment in the attempt to fill the position so ably filled by his predecessors.

Motion of Mr. Lockhart carried, that the salaries of the officers be fixed the same as last year, 1879.

Motion of Mr. Seward carried, that the next meeting of the Board be set for the 17th day of February, at 10 o'clock A. M.

On motion all unfinished business was referred to the Executive Committee.

Adjourned.

EXECUTIVE COMMITTEE MEETING.

AGRICULTURAL ROOMS, JANUARY 9, 1880.

Agreeable to call of the President, the Executive Committee met, with President Ragan in the chair. Present—Messrs. Mutz, Seward, Barns and Meredith.

On motion, the report of the special committee on the geological department, as reported to the delegate board, was adopted, and Prof. Collett instructed to put the department in order, including the Owen Cabinet and Ornithological Case in the agricultural rooms, using his discretion and judgment consistent with economy.

James A. Wildman, Treasurer elect, presented his bond in the sum of \$40,000, properly drawn and acknowledged by a notary, and signed by four good and acceptable sureties, which was duly accepted and placed on file in the office safe.

The following order was given by President Ragan to Treasurer Wildman, dated January 9, 1880:

Carlos Dickson—Dear Sir:—On the 8th of January, James A. Wildman, was duly elected Treasurer of the State Board of Agriculture for one year from this day, and has been duly qualified. You are hereby directed and ordered to pay over to the said James A. Wildman, as your successor, the sum of twelve thousand five hundred and ninety-eight dollars and eighty-nine cents in your hands belonging to said Board. Also the sum of two thousand nine hundred and sixty-three dollars and sixty-four cents belonging to the geological fund in said Board's hands.

\$12,598.89

W. H. RAGAN,

2,963.64

President Indiana State Board of Agriculture.

Attest:

\$15,562.53

ALEX. HERON, Secretary.

On the back of the order, of which the above is a copy, is a receipt for the full amount, \$15,562.53, signed by J. A. Wildman, Treasurer, and the document placed in care of the Secretary of the Board.

The following resolution, offered by Mr. Seward, was adopted:

Resolved, That the Treasurer, James A. Wildman, be and is hereby instructed to invest in government 4 per cent bonds at the lowest premium possible, ten thousand dollars [\$10,000], and hold the same subject to the order of this Board, said investment to be made on, or about the 15th inst.

Ordered, That the Secretary of the Board be authorized to insert advertisements in the premium list for the State Fair of 1880 on condition to furnish the usual number of copies in pamphlet form for distribution.

Adjourned.

FEBRUARY MEETING, 1880.

TUESDAY, FEBRUARY 17, 10 O'CLOCK A. M.

The Board met pursuant to adjournment, President Ragan in the chair. All the members answered to their names as follows:

Messrs. Robert Mitchell, R. P. Haynes, B. H. Hancock, W. B. Seward, J. W. Cofield, S. R. Quick, Jacob Mutz, Dempsey Seybold, H. C. Meredith, J. P. Barns, H. T. Sample, J. N. Turner, L. B. Custer, John Sutherland and R. M. Lockhart.

Minutes of the last meeting read and approved.

A communication from F. L. Dougherty, Secretary of the Indiana Bee-Keepers' Association, was read, and upon motion, referred to the committee on premium list.

A committee of ladies representing the Woman's State Industrial Association, being present, a time for conference committee meeting was fixed for to-morrow, 10 o'clock A. M.

The Board then proceeded to consider claims on file.

On motion of Mr. Sutherland, a committee consisting of Messrs. Seward, Mutz and Mitchell, was appointed to consider the expediency of providing for a practical trial of plows and harvesters the coming season, and requested to report to-morrow.

An expression of the Board was requested with regard to national legislation in the interest of agriculture, with a view of unity of action among the States to prevent the spread of contagious diseases among live stock; the possibilities of manufacturing sugar, from beets, sorghum and corn; the successful cultivation of tea and coffee; and to further these ends, the practicability of making the Commissioner of Agriculture, a cabinet officer. A random discussion followed by Messrs. Meredith, Lockhart, Mutz and Haynes. Upon motion the subject was laid on the table.

Upon motion recess was taken until 2 P. M.

AFTERNOON SESSION.

Two o'clock.

A communication from Dr. Ellis, was read, setting forth the insufficiency of the building allotted for the exhibition of last season's poultry show.

On motion of Mr. Haynes, the matter was referred to the Executive Committee and General Superintendent.

President Ragan called the attention of the Board to an order passed several years ago restricting an exhibitor from again competing for premiums at State Fairs, on account of some informalities and indiscretion, which were recorded at the time, and stated that such exhibitor, Mr. John Marvel, was present; that he had been punished severely, was now penitent, and requested to be again allowed the privilege of competing for State Fair premiums.

Motion of Mr. Mitchell carried, that the restrictions which debarred John Marvel from competing for State Fair premiums, as recorded on page 136, Record C, be annulled and removed.

The question whether the long-continued use of that part of the fair grounds south of the enclosure as a public highway, will not involve a forfeiture of the same to the public, being under discussion, on motion of Mr. Barns the subject was referred to the Executive Committee.

An application of the Tile Makers' Association, by Mr. Billingsly, for adequate space to show their work, was upon motion of Mr. Sample, referred to the General Superintendent.

The President announced the standing committees and department superintendents as follows:

STANDING COMMITTEES:

DEPARTMENT SUPERINTENDENTS.

Horses	H. C. Meredith.
Cattle	Robert Mitchell.
Hogs	Dempsey Seybold.
Sheep	S. R. Quick.
Poultry	B. H. Hancock.
Agricultural	J. W. Cofield.
Mechanical	R. M. Lockhart.
Carriages and Furniture	J. N. Turner.
Horticultural	L. B. Custer.
Engines and Machinery	W. B. Seward.
Educational and Art	John Sutherland and J. A. Wildman.
Natural History	Prof. John Collett.
Amphitheater	R. P. Haynes.
Permits	Jacob Mutz.
Gates	John P. Barns.

After the announcement of the standing committees, President Ragan read a special message to the Board, which, on motion, was ordered to be placed on file and made part of the record:

ADDRESS.

I am aware that what I may say at this time by way of suggestions may be considered as an innovation upon former customs, yet I feel that the beginning of the work, rather than at its close, is the proper time for us to counsel together as to the policy best to pursue.

This is really the business meeting of the year. At the January meeting we simply close up the accounts of the past, and set forth, under a new organization, for a sail upon the unknown sea of the future. Here we halt to take on a pilot and the necessary instruments to guide us through.

A few moments, therefore, devoted to the study of the chart will prove of benefit to us, as, in the event of a storm, each individual member may then be relied upon for efficient service.

Storms are of no unfrequent occurrence upon the waters we navigate, and the voyage we are now upon, without the aid of a Professor Tice, may be safely reckoned as one in which the rule will most certainly prevail.

What may we do, therefore, to avert the dangers that beset us, and insure a safe and triumphal entry into port?

The trust reposing in us is no sinecure. To aid, to encourage, to build up, to educate, should be our motto. Such is the trust imposed in us. It is an honor not to be despised, yet the labors necessary to success are indeed onerous. The master is inexorable. No shortcomings on our part will be excusable, no failures tolerated. Like all public servants we have been, and will continue to be, the subjects of sharp criticism. Many mistakes have doubtless been made, and much that should have been done has been neglected. In the midst of embarrassments such as have beset us, we have sometimes thought our treatment unduly severe. But these are now amongst the things of the past. Times are greatly improved. People are no longer constantly in dread of some great financial calamity, that haunts their thoughts by day and their dreams by night. It is true many have gone down to be known no more in financial circles, but others, with a zeal and enthusiasm that knows no failure, have arisen to take their places. In such we have new friends, those that would gladly see us prosper, and that recognize in our works true merit. Let us profit by the experiences of the past, and strive to so conduct ourselves as to continue to merit the approval and patronage of such. This desirable result can only be reached through a faithful performance on our part of the full duties of our organization. Each individual member should strive

to do his whole duty. We should not be content with the ordinary routine work, such as we have enacted and re-enacted, year after year, for over a fourth of a century. We should be progressive, not content simply with following. We should lead in all laudable work. Let us break our stereotype plates, and set up a new form. Although on the upgrade of progress, we are yet encompassed with many embarrassing circumstances, mainly the result of the fiery ordeal through which we have so recently passed. Perhaps the greatest of these is the lack of co-operation upon the part of citizens of Indianapolis. It is needless to attempt to disguise the facts, or to try to ignore the ill-will of this class. Our interests are mutual. While we can not succeed without their assistance and co-operation, they may get along tolerably well without us. It behooves us, therefore, to renew our pledge of fidelity to them, and to ask in return a guarantee of co-operation. Every business man in Indianapolis should be made to feel that he had a common interest in our welfare. Then let this same pledge extend out from the citizens of Indianapolis to the citizens of the whole State. Let us convince them that we are the worthy servants of the agricultural, mechanical and the household interests of the people of the whole State; that whatever they would have us do to best develop their interests we stand ready and willing—more! we are anxious to do. Through this course, and this only, can we rise above the embarrassments that now beset us, and start out again on the high road to prosperity. It rests with us to turn the wheels of progress. We may look to the next General Assembly until our heads are silvered by the frosts of many winters—we may succeed in perpetuating ourselves in the harness of office; yet, like the unworthy descendant, who anxiously awaits the death of a rich uncle, we ourselves will merit the stigma of failure, and the rich uncle may decide to make other disposition of his fortune. We should take hold of this work with a vim and a will; we should take hold of it as individuals interested only in the success thereof; we should take hold of it in our official capacity as the Indiana State Board of Agriculture, determined to foster every interest represented in this Then we may hope to succeed, and then only. will the relief come. It will come in the conscious thought of our having done our whole duty. In conclusion, let me beseech you, each and all, start out from this meeting with a renewed determination to labor earnestly and faithfully to make the fair of 1880 the best known to the history of the board. Each one of you has in charge a department or subdivision of the exhibition. Devote yourselves especially to the success of your individual departments, but allow no opportunity to pass when you may say a word or perform a deed that will inure to the credit of the whole. Return to your respective homes, to the counties constituting your districts, determined to look up, and bring out the rich resources thereof. There is not a district, not a county, in our State—one of the best in the Union—that does not contain valuable agricultural, mechanical, and other industrial interests of vast importance that should be hunted up and brought into the greatest harvest in which we are engaged. It is our duty to mature those interests, to assist in developing them, to bring them together annually that others may see and learn for themselves the vastness of our national resources, and to be profited thereby. Look after these interests. Speak a good word wherever and whenever you can, and my word for it our efforts will be crowned by the coveted plaudit, "Well done good and faithful."

Mr. Seward moved that the same amount be appropriated for premiums as was appropriated for the last exhibition. After considerable discussion by Messrs. Barns, Seward, Meredith, Quick, Mitchell, Mutz, Heron, Lockhart, Sutherland, Haynes and Ragan, the motion was adopted by one majority.

Mr. Mutz moved to take up the Rules and Regulations, and adopt the suggestions of the Delegate Board so far as they would apply. Carried.

Rule 2 was amended to read "day tickets" instead of "Exhibition season ticket."

Rule 3 amended to require all entries to close Tuesday noon, the second day of the Fair.

After prolonged discussion, with regard to the sale of privileges—the printing and disposition of tickets to exhibitors, in which nearly all the members took part, the Board adjourned, to meet at 8:30 to-morrow morning.

SECOND DAY.

MORNING SESSION.

WEDNESDAY, FEBRUARY 18, 9 O'CLOCK.

The Board met agreeable to adjournment, President Ragan in the chair. All the members present except Mr. Seward.

The minutes of yesterday's proceedings were read, corrected and adopted. .

On motion of Mr. Sutherland, the action on Rule 2 was reconsidered.

The distribution of tickets to renters of stands and others, was discussed by Messrs. Ragan, Sample, Quick, Mitchell, Meredith and Governor Williams; and,

Upon motion of Mr. Lockhart, the whole subject, including the revision of Rules 2 and 9, was referred to a committee consisting of Messrs. Lockhart, Meredith and Ragan.

Mr. Sample being in the chair, the other rules consecutively, and the instructions to the judges, were taken in order, and the rules of 1879 were adopted as amended.

Recess taken till 2 o'clock P. M.

AFTERNOON SESSION.

Two o'clock.

The Board met, with all the members present.

The committee to whom was referred the claim of Enoch Worman for premium on speed (1875), made the following report, reaffirming the former action of the Board in the case:

We, your Committee, after due consideration of all information within our reach, sustain the past action of the Board had at that time, when all the facts were fresh and in possession of the Board.

ROBERT MITCHELL,
JOHN P. BARNS,
JACOB MUTZ,
Committee.

The Committee of Conference, with the committee from the "Woman's Board of Industry," presented the following report, which was accepted:

REPORT OF THE CONFERENCE COMMITTEE.

Your Committee, appointed at the January meeting, to confer with a committee of the "Woman's Board of Industry," with a view of giving to the said Woman's Board the entire control and management of the exhibition at our next State Fair, of the goods in the textile and domestic departments as comprised and shown in books 36 to 45 inclusive, and such other articles as may properly come under their control, and approximating a certain sum of money to be used in paying premiums and other expenses, would respectfully report:

That we have had a joint meeting of the two committees, and after a thorough investigation of the matter, would recommend that the entire control and management of these departments be given to the Board of Directors of the Woman's Board of Industry, and that the sum of one thousand dollars be appropriated for this purpose, to be paid out from time to time, on properly signed vouchers, as other moneys are paid out by the Treasurer of the Board of Agriculture, and that in no event is a greater sum than the one named to be expended or promised to be expended by the said "Woman's Board.

W. B. SEWARD,
JOHN SUTHERLAND,
JACOB MUTZ,

Committee.

The following estimate of expenditures was submitted with the foregoing report, as expenses.

WOMAN'S DEPARTMENT:

1879.	1	1880.	
Premiums paid	\$449	For premiums	\$ 550
Rent show-cases, 150 feet.	5 9	Rent show-cases	100
Awarding committees	73	Awarding committees	73
Entry clerk hire	13	Entry clerks	15
Superintendents and as-		Assistant porter	32
sistants	32	Repairs and decorating	25
Salary of Secretary	100	Special police and attend-	
Estimated improvements.	100	ants	25
Additional estimates for		Salaries, postage and inci-	
. 1880	174	dentals	180
Total	\$1,000	Total	\$1,000

On motion, the report was received and adopted unanimously.

On motion of Mr. Seward, it was ordered that the Woman's Board of Industry should select their own disbursing committee, the selection to be confirmed by the State Board of Agriculture. The committee so selected and confirmed was composed of Mesdames Haggart, Adkinson, Noe, Finch and Stowell.

Upon motion, Board adjourned until 8:30 o'clock to-morrow morning.

THIRD DAY.

MORNING SESSION.

THURSDAY, FEBRUARY 19, 8:30 O'CLOCK.

The Board met pursuant to adjournment, President Ragan in the chair. All the members present except Mr. Seward.

The Board proceeded to the classification of exhibits and

fixing the amounts of the various premiums, resulting in the following changes from the list of 1879:

Book 2. Matches added from book 6.

Book 6. On saddle horses, added from \$10 to \$15, and second premium \$5 to \$8.

Book 7. In herd of six, etc., add the words except heavy draft horses, and added premium for best herd of six, etc., heavy draft horses owned by one exhibitor, same amounts.

Book 8. Leave out premiums for best jack colt, and reduce premium for mule four years old and over \$14 to \$12; second premium, \$7 to \$6. Same changes on mule three years old, under four, and on mule two years old and under three. Add a premium on best mule one year old and under two, \$8; second, \$5.

Book 10. Instead of breeding cattle, insert Short-horns, and all below Herefords transfer to book 11. With a full class for Jerseys, amounting to \$146, and add a premium on Polled Angus bull and cow, first and second, same as on Devons.

Book 12. Second premium on the herd classes left out. Premium on Indiana herd changed from \$25 to \$75, and all relating to herds transferred to book 13; all second premiums on all fatted stock left out.

Book 13. Addition of herds from book 12, as noted.

Book 14. \$20 on sheep added and portioned.

Book 15. \$20 on sheep added and portioned.

Book 16. \$20 on sheep added and portioned.

Book 17. \$20 on sheep added and portioned.

Book 18. \$18 on sheep added and portioned.

Book 19. In the three classes of bucks having five best lambs, advanced from \$10 to \$15.

Book 20. Added for best sow two years old and over, \$12; for second best, \$6. And the same added through books 21, 22 and 23.

Book 24. A sweepstake on large breeds, and the same amount premiums as a sweepstake for small breeds. On best boar, changed from \$20 to \$15. On the best sow, changed from \$20 to \$15, and on the herd, from \$10 to \$25.

Book 28. Added for best collection of Irish potatoes, not less than ten varieties, \$5.

Book 30. All on tobacco left out, and a full list made for butter, cheese and honey, classified to the amount of \$71, and two diplomas.

Books 32 to 35, inclusive. Horticultural Department, \$50 added and referred to State Association to apportion.

Books 36 to 45, inclusive. Textile fabrics, referred to the "Woman's State Board of Industry."

Book 46. Rearranged by request of Prof. Collett. \$67 added, eight diplomas left out, and the collection of pet animals transferred to poultry book.

Book 48. Educational, referred to the Superintendent of that department and President Ragan for verification.

Upon motion, the Board adjourned until 2 o'clock P. M.

AFTERNOON SESSION.

FRIDAY, 2 O'CLOCK.

The Board met, all the members present except Mr. Lockhart.

The revising of the premium list was completed and the list of 1879 adopted as corrected, except Book 5. Speed Class, which was in the hands of a committee for revision, on being called for, they, Messrs. Mitchell, Meredith, Mutz and Seward, were excused to complete their work and report.

Mr. Mutz moved that the allotment of gate keepers for 1880, should remain the same as last year. Mr. Quick moved an amendment to add four men to the number for gate keepers.

Motion as amended adopted.

Motion of Mr. Turner carried, that the President allot to members the appointment of additional gate keepers.

Allotment of gate keepers for 1880 was as follows: Barns 2, Meredith, Seward, Mutz, Custer, Sample and Mitchell, 1 each.

Considerable miscellaneous business was discussed, without definite action, and some committee work not yet reported.

3—AGR. REPORT.

Upon motion, Messrs. Seybold, Hancock and Turner were excused from further attendance.

On motion of Mr. Quick, adjourned until 7:30 P. M.

EVENING SESSION.

FRIDAY, 7.30 O'CLOCK.

The Board met, all the members present except Messrs. Lockhart, Seybold, Hancock and Turner.

Mr. Seward reported from the committee on the proposed trial of plows, etc., as follows, which was accepted:

GENTLEMEN: Your committee appointed to report as to the propriety of this Board having a competitive trial of reapers, mowers, plows, etc., during the coming summer, would report, after due consideration, that we do not think it is expedient to have such a trial during this year.

W. B. SEWARD,

JACOB MUTZ,

ROBERT MITCHELL,

Committee.

Mr. Mitchell, Chairman of the Finance Committee, reported as follows, which was accepted:

We, your committee appointed to adjust the bill presented by Carlos Dickson, Ex-Treasurer of the Board, after due consideration with Mr. Dickson, can not agree or allow the bill as presented, amounting to \$887, for percentage collecting guarantee assessments.

ROBERT MITCHELL, JOHN SUTHERLAND, J. N. TURNER,

Committee.

On motion, the Board proceeded to elect a Trustee for Purdue University by ballot, to be confirmed by the Governor.

Messrs. Sutherland and Haynes explained that, in their opinion, the term of only one of the present members would expire next August.

Mr. Sample nominated Mr. Haynes.

Mr. Quick nominated Mr. Mutz.

Before proceeding to ballot, Mr. Haynes gave a brief history of the institution and its workings, and declined to be a candidate against Mr. Mutz.

Mr. Mutz, with a few remarks, withdrew his name.

On the first ballot, Mr. Haynes received eight votes, and Mr. Mutz received three votes.

President Ragan declared R. P. Haynes duly elected such Trustee, to serve until August 25, 1880, hereby confirming all previous actions of such Trustee or Trustees through any irregular action of the Board, or omission of such appointment heretofore.

The committee appointed to revise premium list on speed classes reported as follows, which was accepted:

REPORT OF THE COMMITTEE ON SPEED CLASSES.

We, your committee appointed to make up a premium list on speed for the next State Fair, do recommend that the matter be placed in the hands of the Executive Committee, with instructions to make the sum total \$3,000. We find, on looking about the city, that the hotels will give several hundred dollars, and think that it can be definitely arranged within a few weeks, but that it can not be done at this time.

HENRY C. MEREDITH, JOHN SUTHERLAND, ROBERT MITCHELL,

Committee.

On motion of Mr. Mutz, the report was received and concurred in, with the proviso that the Executive Committee should exercise their discretion in executing said instructions as to the amount offered.

Motion of Mr. Mitchell carried, that all unfinished business be referred to the Executive Committee, with authority to act.

On motion of Mr. Mitchell, the Board adjourned to meet on the Fair Grounds, Monday, September 27.

EXECUTIVE COMMITTEE MEETINGS.

MARCH SESSION.

TUESDAY, MARCH 23, 1880.

Agreeably to call of the President, the Executive Committee of the Board of Agriculture met in the office of the Secretary. Present, Messrs. Ragan in the chair, Mutz, Seward, Meredith and Barns.

Minutes of the last two days' Board meetings of the February session read and referred to the next Board meeting.

On motion of Mr. Mutz, the claim for rent against Harry Gilbert for use of the Exposition Hall, was referred to the General Superintendent for settlement.

On motion of Mr. Barns, the premiums offered on honey was made to read, "for best 10 lbs. of honey in packages of one pound or more, \$5; second best, \$2, and the same for extracted honey."

On motion of Mr. Meredith, the large and small breeds of hogs for sweepstakes, were classed as follows:

Large breeds—Poland Chinas, Chester Whites, Jersey Reds, and other large breeds.

Small breeds—Berkshires, Essex, Suffolks, and other small breeds.

Mr. Gallup, President of the Indianapolis Board of Trade, introduced Col. Littler, of Iowa, Secretary of the National Butter, Cheese and Egg Association, who addressed the

committee and gave a statement of the object of the association and their coming meeting at Indianapolis on the 27th and 28th of April next, and invited the co-operation of the Board, which was responded to in a very appreciative manner by President Ragan.

Messrs. Billingsley and Hadley, as a committee from the State Tile-makers Association, by resolution from said association, asked for extended facilities for making a display at the coming State Fair. The request was favorably received and referred to the General Superintendent.

Upon motion, adjourned until 9 o'clock A. M.

SECOND DAY.

WEDNESDAY, MARCH 24, 9 O'CLOCK A. M.

Executive Committee met, agreeably to adjournment.
Present, Messrs. Ragan, Seward, Meredith, Barns and Mutz.

Considerable miscellaneous business was discussed informally and consultation had with the General Superintendent as to repairs and improvements.

The division of stalls and pens to the different breeds of stock was, by consent, referred to the President and General Superintendent.

On motion of Mr. Mutz, the premium list for speed classes, as reported by Messrs. Meredith, Barns and Mutz, apportioning \$2,750 to that class, was accepted and adopted.

On motion, the committee adjourned.

MAY SESSION.

TUESDAY, MAY 25, 1880.

Agreeably to call of the President, the Executive Committee met in the Agricultural Rooms.

Present, Messrs. Rigan, (presiding) Mutz, Barns and Meredith. Mr. Seward absent.

Mr. Quick was present by request, being in attendance at the Cattle Breeders' Convention.

Minutes of the last meeting read and approved.

Propositions from Cincinnati and Chicago, and W. B. Burford, for printing lithograph posters and admission tickets, were read and considered, when, by request, Mr. Burford submitted a sketch for a new poster. After thorough examination, on motion of Mr. Mutz, the sketch and printing of poster were left to the discretion of the President, Secretary and General Superintendent to adopt and contract for the printing of 2,000 lithograph posters.

The proposition of W. B. Burford to print 75,000 lithograph tickets for \$65 was accepted, and H. C. Meredith selected to see such tickets printed and secured against fraud.

Motion carried, that 1,200 complimentary tickets be provided, and twelve sent to each member.

The subject of making an exhibition of grain at the Cincinnati Millers' Exhibition, in June, was considered and referred to the President and Secretary, with power to act at their discretion.

The matter of seating the Exposition Building for conventions and entertainments, after consideration, was referred to the General Superintendent.

Upon motion, the Committee adjourned.

AUGUST SESSION.

FRIDAY, AUGUST 20, 1:30 P. M.

Agreeably to call of the President, the Executive Committee met in the Secretary's office.

Present—Messrs. Ragan in the chair, Mutz and General Superintendent Beeler. Messrs. Seward and Barns absent.

Reading of the minutes of the previous meeting postponed, awaiting the absentees.

A memoranda of business pending read by the Secretary.

Motion of Mr. Ragan carried, that the drive-way across the track between the dwelling house and amphitheater be closed, and a drive-way opened on the west side of the dwelling house. Also, that the area between the exposition hall and the time track be kept clear of vehicles during the week of the State Fair.

Motion of Mr. Mutz carried, that the General Superintendent have a new roof put on the old dining hall.

Motion of Mr. Beeler carried, that the General Superintendent be authorized to rent lumber to cover stalls and pens, at his discretion.

Mr. Meredith reported his visit to the Cleveland, Ohio, races, and failure to arrange with the owners of fast horses for the Indiana State Fair.

Motion of Mr. Mutz carried, that the President superintend the allotment of space in the main building.

Motion carried, that the General Superintendent take the siding off the old Fine Art Hall, known as the Agricultural Implement Hall, or a part of it, at his discretion.

Motion carried, that the General Superintendent build such addition to the poultry house as in his discretion may be needed.

Motion carried, that the General Superintendent be and is hereby authorized to rent the Fair grounds and buildings to the Grand Army of the Republic, 21st, 22d and 23d of September.

On motion, the committee adjourned.

INFORMAL MEETING.

AGRICULTURAL ROOMS, THURSDAY, SEPTEMBER 16, 1880.

There being important business pending, an informal meeting of those connected with the Board that could be reached on short notice was called.

Present, Messrs. Ragan, Seward, Barns, Superintendent Beeler, Treasurer Wildman and Secretary Heron.

Letters were read from Messrs. Meredith and Mitchell, members of the Board, regarding the \$1,000 purse on speed.

Motion carried, that \$500 be offered to the owners of the four pacers known as the "Big Four" to go on Wednesday of the fair. Also, that the proposition of Messrs. Loftus and Chancy, for exhibition of double horseback standing race, one-half mile heats, two in three, each day of the Fair, for \$150, and they pay their own expenses, be accepted.

Adjourned.

STATE BOARD MEETINGS

DURING STATE FAIR.

EXECUTIVE BUILDING, FAIR GROUNDS,
MONDAY, SEPTEMBER 27, 2 P. M.

Board met pursuant to adjournment, President Ragan in the chair. All the members present except W. B. Seward, J. N. Turner and J. Sutherland.

Minutes of the last meetings read and approved. Also, proceedings of the Executive Committee, which, on motion of R. M. Lockhart, were adopted.

The President, Mr. Ragan, delivered the opening address, as follows:

Gentlemen of the Indiana State Board of Agriculture:

We are to-day assembled in obedience to our February adjournment and for the purpose of supervising the affairs of the twenty-eighth annual State Fair now opening.

Each individual member of the Board has an important duty to perform in this connection. No greater duty can rest upon you, at least until your respective departments are fully organized, than your obligations to the exhibitors therein.

Up to the present time the care and comfort of exhibitors in a general way has devolved upon the Superintendent, who has performed well his part. You now come to his relief. From henceforth he will remain subject to your orders, in so far as your departments may require his services.

Since our success depends solely and wholly upon our exhibitors, and since the most liberal policy toward the exhibitor, compatible with the general good, is certainly the policy that must eventually win, I trust that you will at once acquaint yourselves with and pro-

vide for their every want. Of course a reasonable discretion will rest with you in regard to their *real wants*. This will guard you against unreasonable demands.

Let us faithfully comply, or at least make the effort so to do, with our published rules and the demands of justice in our dealing with exhibitors, lessees and visitors. The details of this work rest with you as individual members in charge of your respective departments.

Perhaps the most difficult of execution fairly and impartially, of the rules of the Board is Rule 2, in which it is proposed to admit exhibitors in large numbers of our departments free. Our rule relating to leases is now, for the first time, definitely arranged and easy of execution.

In relation to exhibitors, no definite rule can be made applicable to all. Great discretionary authority must therefore be vested in the Superintendent of permits. It is to be hoped that he may be able, in the discharge of this important, though exceedingly delicate trust, to guard well the interest of the Board, and at the same time provide fairly for the wants of every exhibitor who shall be entitled to the provisions of Rule 2.

There is perhaps very little, if any, legislative business requiring the attention of the Board at this hour, and it is important that each member should be with his exhibitors during the arrangement of their exhibits. I would suggest the propriety of an early adjournment for this purpose.

In conclusion, allow me to congratulate you upon the auspicious promises of a good fair, and to invoke the Divine blessing upon our work now so happily begun.

After making some further remarks, again calling the attention of the members to Rule 2, and requesting their co-operation, Mr. Mutz desired the Superintendents of the various departments to send him proper vouchers by applicants for tickets.

Motion of Mr. Lockhart carried, that the State Board of Agriculture hereby extend to the "old prison soldiers" an invitation to visit the State Fair in a body, on Thursday, September 30, at 2 o'clock P. M.

Mr. Lockhart appointed to extend the invitation.

Notice (unofficial) having been received that the State Board of Agriculture of Ohio would arrive in this city this evening, Mr. Heron suggested that the President appoint a committee of reception, and that they be offered the freedom of the fair, as the guests of the Board.

Mr. Mitchell seconded the motion, and announced that delegations from associations in Michigan and other States, might also be expected, and moved that the same courtesy be extended to all. Adopted.

Messrs. Mitchell, Lockhart and Meredith appointed such committee.

Motion of Mr. Mitchell carried, that the Board adjourn to 10 o'clock A. M. to-morrow.

SECOND DAY.

MORNING SESSION.

EXPOSITION GROUNDS, TUESDAY, SEPTEMBER 28, 1880.

Board met at 10 A. M., President Ragan in the chair. A quorum being present, the calling of the roll was dispensed with. Minutes of last meeting read, corrected and approved.

President Ragan called attention to the fact that no action had been taken by the Board in regard to its representation as a body at the ceremony of laying the cornerstone of the new State-house, which occurs this day.

Mr. Meredith moved that a committee of five be appointed by the Chair to represent the Board. Amended by consent so as to embrace all members who can attend without neglect of duty, H. T. Sample acting as chairman.

Recess taken until 2 o'clock P. M.

AFTERNOON SESSION.

Two o'clock.

A quorum being present, President Ragan in the chair, the Board proceeded to appoint various committees, as follows:

On Horses—C. B. Jackson, Nelson Johnson, John Anderson, John Wilson, Dr. C. S. Arthur, G. W. Krugan.

On Hogs—George Sulland, Stephen K. Cofield, Arthur Brooks, Joseph Kale, J. D. Agnew, W. A. Banks, Walter Fagen.

On Cattle-James Robinson, James W. Kay, Geo. W. King, J. B. Gerard.

On Sheep—Jacob H. Hancock, J. M. Cartnell, Hiram Barclow, W. R. Racklidge, Samuel Hewel, Dr. Burrows.

On Agriculture—L. W. Shelton, J. L. Saylor.

On Horticulture—Allen Lloyd, D. E. Huffman.

On Textile Fabrics—Squire Wells, Chairman; Miss Jennie Patterson, Mrs. Laura McDonald.

On Books, A and B-M. Zeschke, Gustave Bohn.

On Books, E and F-Dr. R. T. Brown, Charles A. Howland.

Adjourned until to-morrow morning at 9 o'clock.

THIRD DAY.

MORNING SESSION.

Wednesday, September 29, 1880.

Pursuant to adjournment, the Board met at 9 A.M., President Ragan in the chair. A quorum being present the appointment of committees was continued as follows:

On Books C and D-A. M. Alcott, Dr. M. G. Parker.

Educational and National History—Dr. A. W. Brayton.

Motion of Mr. Brown carried, that Department Superintendents be authorized to draw from the Superintendent of permits, the number of tickets, in their discretion, to be given to exhibitors. Motion of Mr. Barns carried, that supply wagons and horses be admitted free, but each person with such vehicle shall pay twenty-five cents. Those of exhibitors free, when entering with exhibits.

After discussion, motion of Mr. Mutz carried, that the children and teachers of the Public Schools, when coming in a body, be admitted for ten cents. Also, that the scholars and teachers of the Benevolent Institutions of the State, and Orphans Asylums, attending in a body, be admitted free.

Motion of Mr. Lockhart carried, that traction engines and their display, be permitted upon the speed ring on Thursday and Friday at 1 P. M.

Recess taken until 2 P. M.

AFTERNOON SESSION.

Two o'clock.

An informal meeting held as called at morning meeting. There being no quorum present the President declared a recess until to-morrow at 9 o'clock.

FOURTH DAY.

MORNING SESSION.

THURSDAY, SEPTEMBER 30, 1880.

The Board met, pursuant to adjournment, at 9 A. M., President Ragan in the chair. Quorum being present.

The President suggests the appointment of two members of the Board to separate the railroad coupons from the tickets.

Motion of Mr. Lockhart carried, to adopt the foregoing and appointment of said committee by the chair.

Messrs. Sample and Mutz appointed such committee.

Mr. Lockhart offers the following:

WHEREAS, The Victor Clover Machine has issued a challenge to all other manufacturers of Clover Hullers, for a contest of the various machines, on the Indiana State Fair Grounds, to be held at 1 o'clock, P. M., September 30,

Rescived, That the Board will assent to such trial. The committee to decide upon the merits of such machines to be selected by the parties interested and mutually agreed upon by them.

The Board will sanction the action of said committee, and award the society diploma.

Motion of Mr. Sample carried, that the action of Mr. Meredith, in offering a purse of \$25 for a pacing race, yesterday, be approved.

Recess taken until 2 P. M.

AFTERNOON SESSION.

Two o'clock.

The Board met, with President Ragan in the chair. A quorum being present, the following sweepstake committees were appointed:

Cattle-Thomas Nelson, Geo. W. King, Orlando Sifle.

Hogs-Joseph Kale, Warren Mason; Superintendent Seybold to supply the other.

Motion of Mr. Sample carried, that all articles and stock on exhibition shall be detained upon the grounds until Saturday at 12 o'clock.

Adjourned until 9 A. M. to-morrow.

FOURTH DAY.

MORNING SESSION.

FRIDAY, OCTOBER 1, 1880.

President Ragan called the Board to order at 9 A. M., a quorum being present.

Mr. Perkins, of Mishawaka, representing windmills, protests against the placing of ribbons on competing windmills by the awarding committees.

Motion of Mr. Sutherland carried, that the committee be sent for.

Mr. Meredith—Having long since, by order of the executive committee, notified horseman that they could remove their stock on Friday, if they would exhibit at the fair, desired some arrangement made by the Board to relieve him from the dilemma in which he is placed by the action of the Board yesterday.

Motion of Mr. Mutz carried, that the action of the Board in regard to the detention of stock be reconsidered.

Mr. Meredith moved, that stock be permitted to leave the grounds at the discretion of the Superintendents after 5 P. M. this day.

Mr. Haynes moved an amendment, that the order apply to all machinery not competing for premiums and intending to exhibit at other fairs.

Motion as amended adopted.

Offered by general consent, that a diploma be offered for the best herd of Jersey cattle now on exhibition.

The President suggests that the General Superintendent and department Superintendents report the expenses incurred, and number of employes in their several departments to date, at 9 A. M. to-morrow, concurred in.

Recess taken until 2 o'clock P. M.

AFTERNOON SESSION.

Board called to order by President Ragan at 2 o'clock. On motion of Mr. Mitchell, the Board ordered a diploma to the Mechanical, also to the Agricultural and Fine Art displays made by the Purdue University.

Motion carried, that no band be employed to-morrow.

Motion of Mr. Mitchell carried, that the Secretary be instructed to issue orders for payment of premiums from and after 4 o'clock to-day.

Motion carried, that the Chair appoint a committee to examine the system of drawing exhibited by Prof. Alcott, and award diploma if of sufficient merit. Messrs. Sutherland and Turner appointed as committee.

Adjourned until to-morrow 9 o'clock A. M.

FIFTH DAY.

MORNING SESSION.

SATURDAY, OCTOBER 2, 1880.

Board met as per adjournment at 9 o'clock, President Ragan in the chair. A quorum being present, calling the roll was dispensed with.

The minutes of the proceedings of the Board for the week were read and approved.

Reports of department Superintendents received as follows:

Horse Department—H. C. Meredith, four assistants, \$54.

Cattle Department—Robert Mitchell, two assistants, \$11.

Hog Department—Dempsey Seybold, three assistants, \$28.

Sheep Department—S. R. Quick, three assistants, \$14.

Agricultural Department—J. W. Cofield, four assistants, \$26.

Carriages, etc.—J. N. Turner, five assistants, \$20.

Horticultural Department—L. B. Custer, —— assistants, \$41.40.

Educational Department—John Sutherland, assistant and ex., \$10.25.

Gates—John P. Barns, thirteen assistants, \$178.

Amphitheuter—R. P. Haynes, two assistants, \$20; H. T. Sample, three assistants, \$22; W. H. Ragan, two assistants, \$12; B. H. Hancock, four assistants, \$28.50.

Messrs. Sutherland and Turner report as follows:

We, the committee appointed by the Board to examine Trobridge's Patent Drawing, as taught by Professor J. M. Alcott, beg leave to report that we have examined the specimens and recommend that the Board award Professor Alcott a diploma.

Messrs. Sample Loftin, County Treasurer, and William Pfaff, County Auditor of Marion county, appeared before the Board to inquire whether the Board claimed authority in the matter of licenses to showmen on the grounds.

The Board decided they had nothing whatever to do with licenses.

Mr. Meredith asks instructions of the Board as to whether the free-for-all trot shall proceed with the present entries, there being six.

Ordered, that if in his judgment the race will be fairly contested, the horses be allowed to start.

Thomas Wilhoit enters protest as follows:

To the Honorable President and Board of Directors of the Indiana State Fair, held at Indianapolis, September 27 to October 2, 1880.

In the show of short-horn cattle, four years old and over, cows: My cow, a light roan, name Bright Eyes, and exhibited in the ring under entry card No. 4, was awarded first prize, and the ribbon tied and the cows ordered to the stalls.

The committee, some time after, came around and said that some

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mistake had been made, and asked that the change be mathat the ribbon be taken off my cow, and the blue be plainstead of the red; or, in other words, that the second premawarded to me in place of the first. If, as the committee claimistake had been made, why did one of their number, we consent of the other two, and in the presence of the Superent and spectators, to the number of one hundred and fifty the ribbon to have been tied upon my cow and allow her reto the stalls?

With all due respect to the gentlemen of the committee the honorable Board of Directors, I must enter my protest such action, and insist that the prize as awarded me in the viz., first premium, be duly entered to my credit, and place my cow No. 4.

The Board decided that as the change of the prewas made by the committee while the book was still hands of the committee their action be sustained.

Motion of Mr. Mutz carried, that the police be paid and \$2 per day, according to service, to be graded Superintendent, and that the chiefs receive \$4 per day

Mr. Seybold asks that he be excused from duty of the remainder of the Fair. Granted.

On motion recess was taken until 1:30 P. M.

AFTERNOON SESSION.

Board met agreeably to adjournment, President Ra the chair. A quorum being present.

The General Superintendent reports his inability to his report at the present time. Referred to the Exc Committee.

Motion of Mr. Mutz carried, that the payment of \$ the Grand Army of the Republic for rent of the grounds be accepted as payment in full.

Motion carried, that all unfinished business be refer the Executive Committee.

Adjourned.

EXECUTIVE COMMITTEE MEETING.

Tuesday, October 5, 1880, 2 o'clock p. m.

Agreeably to call of the President, the Executive Committee of the Board of Agriculture met in the office of Treasurer Wildman, in the rear of the Central Bank, with President Ragan in the chair. Messra. Mutz, Barns, Meredith, Superintendent Beeler, Treasurer Wildman and Secretary Heron were present.

Treasurer Wildman reported the gate receipts as follows:

To cash received from sale of 51,908 tickets, at 25c......\$12,977 00 To cash received from sale of 8,295 R. R. coupons, at 25c.. 823 75

	\$18,800	75
To cash received from sale of 15,518 tickets, at 10c	1,351	3 0

Total from sale of tickets......\$15,152 15

Motion of Mr. Mutz carried, that the President and General Superintendent consult legal advice in reference to closing up the roadway on the south side of the Fair Grounds, and act accordingly.

On motion, adjourned.

ANNUAL MEETING

1881.

AGRICULTURAL ROOMS, TUESDAY, JANUARY 4, 1881, 10:80 A. M.

greeably to call, and in accordance with the provisions of ite law, the Delegate State Board of Agriculture met inual convention, President Ragan in the chair.

he roll being called, the following members of the rd proper responded to their names:

- st Dist.-Robert Mitchell, Princeton, Gibson county.
- l Dist.-
- l Dist.-B. H. Hancock, Fredricksburg, Washington county.
- h Dist.—Hon. W. B. Seward, Bloomington, Monroe county.
- h Dist.-J. W. Cofield, Rising Sun, Ohio county.
- h Dist.—S. R. Quick, Columbus, Bartholomew county.
- h Dist.-Hon. Jacob Mutz, Edinburg, Shelby county.
- h Dist.—Dempsey Seybold, Bridgeton, Parke county.
- h Dist.-Hon. W. H. Ragan, Clayton, Hendricks county.
- h Dist.—Henry C. Meredith, Cambridge City, Wayne county.
- h Dist.—John P. Barns, Anderson, Madison county.
- h Dist.—H. T. Sample, Lafayette, Tippecance county.
- h Dist.—John N. Turner, Marion, Grant county.
- h Dist.-L. B. Custer, Logansport, Cass county.
- h Dist .--
- h Dist.—Hon. R. M. Lockhart, Waterloo, DeKalb county.

he roll of counties was then called for delegates from ity societies. The following named gentlemen reded:

COUNTY SOCIETIES.

Counties.	Names.	Post Office.
Allen	I. D. G. Nelson	Ft. Wayne.
Bartholomew	8. R. Quick	Columbus.
Blackford	Benj. Ğ. Shinn	Hartford City.
Boone		Lebanon.
Cass		Logansport.
Clark	Andrew J. Hay	Charlestown.
Clay		Brazil.
Daviess	O. B. Steen	Washington.
Dearborn	l 1	Lawrenceburg.
Decatur		Greensburg.
Delaware		
Fayette	l	
Fulton		
Gibson	\ _	
Grant		Marion.
Greene		Marco.
Hamilton		Cicero.
Harrison	l	
Hendricks		
Howard	 	
Huntington		Huntington.
Jackson		Brownstown.
Jasper		
Jay	l	
Jefferson		Madison.
	H. S. Byers	Franklin.
Knox		Vincennes
Lagrange		
Lake		
Laporte		
Lawrence	Wm. Day	
Madison	a	
Marion	/ 	Tryington
Martin		
Montgomery	F. L. Snyder	Crawfordaville
Newton		Reaver Timber
Noble		Ligonier
Orange		
Parke		Rockville
Pike	S. Hargrove	Union
Porter	General Suman	Sumon
Pulaski		
Putnam	Albert O Lookridge	Grannaetla
z uwiaiii Randolnh	Albert Ö. Lockridge Nelson Pegg	Carro Gordo
Rinlov	Wm. Holland	Oerood
		いかといいは。
Ruch	D. B. Canady	Lawierilla

COUNTY SOCIETIES-Continued.

Counties.	Names,	Post Offic
Steuben	John T. Hunter	Angola. Lafayette. Shielville. Terre Haute. Wabash. West Lebanon. Boonville. Centerville. Bluffton.

DISTRICT SOCIETIES.

DISTRICT.	Names.	Post Off
Bridgeton Union	James A. Rea	Bridgeton.
Cambridge City Fountain, Warren and	D. B. Canady	Lewisville.
Vermillion Henry, Madison and	Oliver Shelly	Covington.
Delaware	N. R. Elliott	Mechanicsb
Northeastern Indiana Russellville Union	C. A. O. McClellan J. N. Fullenweider	Waterloo. Brown's Va
Southeastern Indiana	A. D. Hopping	Aurora.
Switzerland and Ohio Thorntown Union	J. W. Cofield Archibald Johnson	Rising Sun. Darlington.
Knightstown Union	Joseph C. Campbell	Knightstown
Edinburg Union Loogootee District	George W. King Henry J. Johnson	Edinburg. Loogootee.
Plainfield Agr'l Society.	Amos Alderson	Plainfield.
New Ross Agr'l Society. Orleans Agricultural	John Lockridge Wm. T. Spicely	Mace. Orleans.
Terre Haute Horticul-		Mana II
tural	Lawrence Heinl	Terre Haute

STATE	INDUSTRIAL.	ASSOCIATIONS.
	INDUSTRIAL	ADDITION

Associations.	Names.	Post Offices.
State Horticult'l Society Purdue University Dairymen's Short Horn Breeders' Swine Breeders' Wool Growers' Poultry Breeders' Bee Keepers' Tile Makers' Woman's Industrial	Sylvester Johnson Prof. C. L. Ingersoll Asher Kellum T. W. W. Sunman A. S. Gilmour Fielding Beeler Dr. W. J. Elstun F. L. Dougherty J. T. Stringer Mrs. M. E. Haggart	Irvington. Lafayette. Friendswood. Spades. Greensburg. Indianapolis. Indianapolis. Indianapolis. Kokomo. Indianapolis.

During roll call an objection was raised to allowing one delegate (Mr. Spicely) to represent more than one organization or society.

Mr. Hay, of Clark, made a motion to let Mr. Spicely represent both organizations with but one vote.

With some discussion, the motion was so amended as to let the delegate represent both, with the privilege of casting one vote for each society.

The following programme was announced as the order of business for the meeting:

TUESDAY, JANUARY 4, 1881.

Call to order, 10:30 o'clock A. M.

Roll call of delegates by counties and district agricultural societies. Adjournment. Friendly greeting and introduction.

President's Address, 1:30 p. m.

Reports of Officers—Secretary, Treasurer, General Superintendent and Department Superintendents.

Appointment of Committees from the delegates to act with the regular Committees of the Board, two on each of the following Finance, Rules and Regulations, Fair Grounds, Premium List, Geological Department and Unfinished Business.

Nominations to fill the place of retiring members.

Address on the Review of Agriculture in Indiana, by Dr. R. T Brown, of Marion county, 3:30 P. M. Address on Wheat Culture in Indiana, by David Gibson, of Indianapolis.

EVENING SESSION-7:30 P. M.

Resolutions of respect to the memory of the late Governor J. D-Williams, ex-President of the Board of Agriculture.

Memorial tributes by Dr. A. C. Stevenson, Hon. A. D. Hamrick, Dr. R. T. Brown, Hon. I. D. G. Nelson and others.

Address on "Forestry" in Indiana, by Prof. C. L. Ingersoll, of Purdue University.

WEDNESDAY, JANUARY 5.

Reports from Committees and other business matters. A. M.

Election of eight members, 1:30 P. M.

Address on "Educated Industry," by Dr. Lemuel Moss, President of the State University at Bloomington, 3:30 p. m.

Address on "Is it important to have experts as Committees to pass on Live Stock at our Fairs," by Robt. Mitchell, of Gibson county.

EVENING SESSION-7:30 P. M.

Continuation of essays and discussions.

Addresses on "Technical Training in American Schools," by President E. E. White, of Purdue University.

Address on "Ponds and Pond Water," with reference to health and wealth, by Geo. L. Curtis, M. D., D. D.

Other appropriate essays are expected, and will be presented as time and opportunity will permit.

General remarks and discussions will be in order, and follow each address or essay.

THURSDAY, JANUARY 6.

Unfinished business and re-organization of new Board.

Upon motion, recess was taken until 1:30 P. M.

AFTERNOON SESSION.

HALF-PAST ONE O'CLOCK.

The convention met, with President Ragan in the chair. President appoints the following members a Committee on Credentials: Messrs. Quick, Gilbert and Willey.

The delegates not present at the morning session were given time to file their reports with the Secretary.

On motion of Mr. Sunman, Mr. Murdock, a director of the Lawrenceburg Association, was entitled to recognition as representative from that association.

H. T. Sample, Vice-President, was called to the chair. The President then delivered his annual address, as follows:

PRESIDENT RAGAN'S ADDRESS.

Gentlemen of the State Board of Agriculture:

Let us return thanks to Him "from whom all blessings flow," for abundant crops, peace, good health, general prosperity, and for the privilege of again assembling in the capacity of a State Board of Agriculture at the close of another year's labors. During this time many who have labored with us in the great work of promoting industrial interests have been called hence. Notably prominent among these we to-day mourn the loss of one who but recently gave wise counsel and diligent service to all things that pertained to the best interests of this Board and the causes that it labors to promote.

Governor James D. Williams, long a member and frequently President of this Board, after a life of many years well spent in the promotion of all that is noble in the human soul, was peacefully taken from our midst and from his high duties and responsibilities as chief executive of our State, in this city, on November 20, 1880. The adoption of proper resolutions of respect in memory of his distinguished service as a fellow-member and ex-President of this Board, will be your appropriate duty.

Long established custom demands of me, as your presiding officer, an account of my stewardship. In a special message at the beginning of my administration, I ventured to make some suggestions as to the policy to be pursued; now at the close I will beg your indulgence in a brief retrospect of the past in the hope that the experiences of the year may be of value in the future. While it is not true that the annual fairs of this Board constitute the acme of its labors in one sense, they nevertheless do in another. The revenue of the Board must be largely derived from its

ANNUAL FAIRS.

This being true, it is clearly your duty to consider well any propositions of reform or progress that will at the same time enhance the interests in our fairs and increase the revenue therefrom, always provided that this is not accomplished through a compromise with immorality and vice. The moral status of our exhibitions must be scrupulously preserved. If fairs can not be maintained without resorting to questionable devices and complications—in other words, if they can not be maintained on their true merits, the sooner they are permitted to die, to be known no more, the better for all concerned. It is true, in the management of public institutions like our annual fairs, in which the interests of all are to a greater or less extent centered, no individual preference should have entire control, as no one idea or set of ideas can be broad enough on which to found a temple wherein can dwell with prosperity a multitude of tastes and preferences like those permeating the minds and guiding the destinies of our people. Every industry should be fostered, every source of innocent amusement encouraged, and every demoralizing influence whatever strictly excluded from our fairs. I know it has been urged that the State Board of Agriculture is in no sense the guardian of the public morals. This may be true, and yet I incline to doubt. Having briefly indicated my views in reference to general management of fairs, I will now point out in detail what present themselves as a few of the

VALUABLE LESSONS OF THE SEASON.

The late State Fair was, in many respects, eminently successful. Considering the excited condition of the public mind on political questions, and the fact that public meetings were of frequent occurrence in every section of the State, coupled with decidedly unfavorable weather during the early part of the week, I flatter myself with the idea that our receips were, indeed, quite satisfactory. As a verification of this assertion, I respectfully refer you to the financial statements of the Secretary and Treasurer. These satisfactory results were doubtless due to the increasing prosperity of our country, and to a growing confidence in the business management of the Board.

THE EXHIBITOR

Being a prominent factor in connection with any fair, I will venture a few suggestions in regard to his treatment. His treatment should be liberal in all particulars. Premiums should be carefully graded, and liberal in all the departments, but not so large as to preclude the possibility of their payment in full. Pro rata settlements with exhibitors never result satisfactorily. Prompt and full payments can alone result in permanent prosperity and good feeling. With a good exhibition and a thoroughly established confi-

dence between the exhibitor and the management other good results must follow. One of the most perplexing questions in this connection is how to treat the exhibitor in regard to his admission to the grounds. That they should be admitted free, especially those who are not competing for valuable prizes, there can be no doubt, and it is equally a matter of justice that those who are competitors for premiums should be admitted on special and easy terms, and in such a way that they would not be annoyed at the gates, or be the subjects of annoyance. Contingencies occur in the experience of all exhibitors in the course of the arrangement and display of their articles in which it becomes a matter of necessity for them to pass out and in at the gates frequently, and when this privilege is denied them bitterness and ill-feeling must result. Were it not for the unfortunate fact that all men and all women are not strictly honest, and that a few of this class are exhibitors at fairs, this whole matter would be of easy solution, or were it possible to escape grievous abuse from an indiscriminate granting of season tickets to exhibitors, the desired object would be easily reached. How to overcome these difficulties, and to establish a fair and equitable rule through which the interests of the Board may be safely and well guarded, and at the same time deal liberally with the men and women who make our fairs, are most pertinent questions, and worthy of your careful consideration.

THE DURATION OF FAIRS.

In the experiment of an Exposition in connection with our State Fairs, undertaken at a most unfortunate time, the minimum length of the term was fixed at twenty days. Experience soon demonstrated this to be too long, when a return to one week, as of former years, was agreed upon. This is, in my judgment, too short a period, since, as two days are necessarily consumed in the preparation and as many more in the breaking up, there are but two remaining for the exhibition, and these are so crowded as to be neither pleasant nor profitable to visitors or exhibitors. Exhibitors can not be held after the close of a fair over Sunday without great injustice and annoyance, but preceding the fair but few of them will object. I, therefore, following the suggestions of the Women's State Fair Association, would recommend that Thursday, Friday and Saturday of the preceding week be set apart as days of preparation in which all articles must be arranged, and during which the gates shall be open to exhibitors and all having business on the grounds; that Monday shall be known as the opening day, and that the fair shall close promptly at 4 o'clock P. M. of Friday, after which

all articles may be removed. I am fully persuaded that this plan will meet the approval of a large majority of the exhibitors, and be of interest pecuniarily and otherwise to the Board. I would further recommend, in this connection, that promptly at 1 P. M. of Monday each awarding committee be placed on duty. This will stimulate promptness on the part of exhibitors, facilitate the work of committees, their work being largely done before the crowded days, and afford the successful exhibitor the benefit of his awards as a means of advertising during the remainder and the best days of the fair.

PRICE OF ADMISSION.

The State Board of Agriculture was created for a higher purpose than that of accumulating dollars and cents, and yet it was clearly intended that it should be self-sustaining. Such being the case, I have at all times been the advocate of a low rate of admission. In this particular, it is a matter of pride, that among State fairs, none have been more liberal than ours, while ours has been an exception in combining the features of a fair and exposition, yet the admission fee has steadily been kept down to twenty-five cents. In order to do this, however, it has been necessary to reduce the premium list from year to year, and to forego necessary improvements and repairs on buildings. That we should increase the premium list in most, if not in all the departments, I am fully persuaded. This desirable result can only be reached through an increase in the gate fees. This subject, affecting as it does the vital interests of the Board, I submit as worthy of your earnest attention.

PREMIUMS.

Some years ago, competitive premiums were abolished in the mechanical departments, the exhibitors expressing a preference for a meritorious notice, rather than a competitive award in the absence of practical tests. In most particulars, this plan has given satisfaction, though I think it but a matter of justice, especially to inventors and manufacturers, that a more liberal use should be made of the diplomas and medals of the Board, not to be based upon competitive, but strictly meritorious considerations. There is no class of exhibitors that value a recognition of this kind more highly than the inventor or manufacturer. I would further recommend that a competitive award, consisting of an appropriate medal, be offered for the best general display of goods in each of the several classes, taste and arrangement considered, of the mechanical departments, including agricultural machinery, musical instruments, sewing machines, stoves, hardware, furniture, carpets, etc. Cash

premiums should also be largely increased in most, if not in all the departments now receiving money premiums.

DEPARTMENTS AND THEIR MANAGEMENT.

Under our present system the labors, and especially the responsibilities, of our General Superintendent and his subordinates are often too great. The member having charge of a department should be ready at all times during the fair to consult and advise with exhibitors in regard to their wants; and when, in his judgment, supplies of any kind or improvements for their use and convenience are necessary, he should order the General Superintendent to make the necessary purchases and execute his wishes; otherwise, the Superintendent will often be under the necessity of allowing subordinates to make purchases or of neglecting the wants of exhibitors, either of which is grossly wrong. The departments should be so arranged that the member having charge could easily supervise and care for every want of his exhibitors, and he should feel this to be his imperative duty.

REFRESHMENTS.

An important adjunct, as well through the revenue derived therefrom, as from the absolute necessity of a liberal supply of wholesome refreshments in connection with an exhibition, renders a brief discussion of this subject in your presence a duty, if not a pleasure. The ease and facility with which visitors are supplied with refreshments will have much to do in popularizing our fairs. It is therefore not good policy to place such prices upon stands as will compel renters to charge exorbitant prices for their accommodations, or to tempt them to offer a greatly abridged meal at full prices. Neither should refreshment stands be located indiscriminately throughout the exhibition; they should have separate apartments, not in connection with the exhibition. It is in exceedingly bad taste, indeed an act of positive injustice, to place a refreshment stand immediately adjoining an exhibitor.

THE FINANCIAL CONDITION OF THE BOARD.

That an immense indebtedness, now due, hangs over the property of the Board, is a source of deep regret. It is needless for me to recite in your hearing the causes that brought about this unfortunate condition of its financial affairs, since the facts have often been presented by my worthy predecessors, yet I will venture to exonerate the Board from any charges of criminal wrong in this connection. The facts are, as have already been intimated, the experiment of an Exposition, in connection with our annual fairs, was under-

taken at a most unfortunate time. It is therefore due to the financial conditions that have overshadowed our country so recently, that the property of the Board is now in jeopardy. But during eight long years of embarrassment through which the Board has passed, as if under a dark cloud, the work of promoting the interests for which it was created have not been permitted to lag, nor has there ever been, in the history of the Board, now covering a period of thirty years, a premium awarded at any of her numerous fairs that has not been paid in full. No pro rata settlements have ever been made, either with exhibitors or employes, yet members have not unfrequently been compelled to carry their per diem orders from year to year, anxiously awaiting the coming of the "better day."

The Board has made frequent and diligent efforts, even at a sacrifice of its beautiful and valuable grounds in this city, to extricate itself from its embarrassed condition, but thus far hopelessly. The grounds of the Board are immensely valuable, by reason of their beauty and eligibility for building purposes, and are now, under a better condition of the affairs of the country, steadily advancing in value, but as they are too large for most individual purchasers, and the buildings, though permanent and valuable, are not adapted to ordinary uses, it has been exceedingly difficult to find parties willing to bid on them, besides, it is possible, since a forced sale is only a question of time, that those really desirous of owning the grounds, are combining to purchase them on their own terms. Twice already, during this embarrassing period, has this Board been forced to appeal to the generosity of the General Assembly for aid, each time proposing to deed its property to the State in consideration of a liquidation of the indebtedness, the grounds to be held by the State for fair purposes, till such time as they might be otherwise needed. In my judgment the General Assembly, in each case, made a sad mistake in appropriating money to pay the interest instead of paying off the principal and taking a deed. While the debt is not reduced, the appropriations are expended, and the Board is still involved, even more deeply than ever. The thought of again being forced to appeal to the General Assembly is humiliating in the extreme, yet I now know of no way of guarding the State's interest, as well as that of the Board, except through legislative interference. There can be no possible doubt as to the safety of the investment, while the State certainly owes a guarantee of protection to its greatest productive interest, that of Agriculture and kindred arts.

THE CITY OF INDIANAPOLIS

Is fortunately the geographical and the business center of our State,

besides being the capital thereof. No adjoining State has a commercial center, accessible from every point of the compass and without a rival within her border, so well adapted as a permanent location for her annual fairs and other public gatherings, as ours, a fact that the wisdom of our predecessors fully recognized in making the original investment at this point. That investment has, in my judgment, been a fortunate one for the Board and the interests it represents, while the business interests of the capital city certainly have been largely enhanced by the annual contributions that have been presented at her feet during the quarter of a century in which State fairs have been held in her midst. Unfortunately, however, there is a class of citizens of our State, and many of them good citizens, too, who look with jealousy upon the location, while on the other hand, there are business men in the city of Indianapolis who insist, though I could never believe them sincere, that the fairs are of no value to them, in a business sense. These feelings do not naturally exist. Our interests are mutual. Whatever contributes to the commercial interests of Indianapolis, adds to the fame and prosperity of our State. Our fairs are a source of untold wealth to Indianapolis, they are of incalculable benefit to the whole State! Then let us dismiss any petty jealousies, if such really exist, making common cause of the work in hand.

PURDUE UNIVERSITY.

The fundamental law of our State declares it to "be the duty of the General Assembly to encourage, by all suitable means, moral, intellectual, scientific and agricultural improvement." One means adopted for executing this wise provision of our constitution is through the labors of the State Board of Agriculture; another, and even higher, through the State Agricultural College, unfortunately christened Purdue University. These institutions are not only colaborers in reality, but are made so legally. The Board of Agriculture is authorized by law to select two of the Trustees for Purdue University. Ours is, therefore, in conjunction with Purdue University, only a part of the educational system of our State, having special charge of the scientific and agricultural interests, and with high moral and intellectual responsibilities. Purdue is yet in her infancy, not having passed the first decade of her existence, yet I am pleased to note that her benign influence is already being acknowledged throughout our State. The good influence of such an institution is not manifested through the tempest and whirlwind, but through that still small voice that may already be recognized throughout our State. A higher education that will tend to lead our sons and daughters into, rather than out of, a liking for industrial pursuits—in other words, an education that will not inevitably lead to the already crowded professions, and to the crowded cities and towns, will do more to wrest our country from pending ruin than empty theories and glittering generalities. Such an institution I believe we have in Purdue, to demonstrate which it only needs the fostering care of those in whose interests its labors are wrought. One of the highest duties of this Board is to guard well the trust herein conferred. If there are existing abuses let us strive to right them, rather than criticise, while witholding the helping hand.

BUREAU OF STATISTICS AND GEOLOGY.

The law creating the Department of Geology placed it under the control and management of the Board of Agriculture, making the Board also custodian of the funds appropriated for the use of the Department and responsible for their faithful disbursement. Through the careful management of the Board, near \$3,000 of this fund were saved up. The last General Assembly abolished the Department of Geology and created in its stead a Bureau of Statistics and Geology, but did not see fit to place it under the control of this Board, neither did the act provide for the transfer of the funds above refered to, or for its return to the State Treasury. In this dilemma the Board sought the opinion of the Attorney General in regard tothe disposition of this fund. He authorized the use of such portion of it as might be necessary in fitting up, classifying and labeling the museum and geological cabinet then in the custody of the Board, before transferring it to the care of the Bureau of Statistics and Geology, and that the remainder should be held for the disposition of the General Assembly. The amount remaining will be shown by the reports of the Secretary and Treasurer. Through the use of a small portion of this fund, Prof. Collett, the efficient chief of the new department, has thoroughly revised and re-arranged the Museum, placing it in a shape to be of value to the student and of interest to the casual visitor.

The Bureau of Statistics and Geology now closing its second year's labor, is rapidly proving itself to be of incalculable value; the first annual report of this department, under the efficient management of Prof. Collett, is an encyclopedia of statistical information of great value to the manufacturing and business interest of our State.

INDUSTRIAL ORGANIZATIONS.

The work of promoting the industrial interests of the State is now well organized, the Board of Agriculture standing at the head of all, and being greatly assisted in its labors through each. Hap-

pily agriculture is a wide field, covering as it does, special branches almost ad infinitum. Horticulture, cattle breeders, dairy, swine breeders, wool growers, poultry breeders, bee keepers, tile makers, and the Woman's State Fair Association, are now each fully organized, and in a measure looking after these special interests. The Board of Agriculture is under obligations to each of these associations, more especially so to the very efficient Woman's State Fair Association, under the management of its able and indefatigable officers.

Through the reports of the officers and department superintendents you will be furnished the details of the year's work. To each of these I am indebted for numerous courtesies, and valuable assistance. The cordial support that I have at all times received from my fellow-members places me under lasting obligations to each. Your duties have been numerous and exacting, your pay has been insufficient, and the public criticism sometimes severe. You have performed well your part, and I at least can thank you. To the officers of the Board, much credit is due. Your work, never light, has at times been almost superhuman. You are justly entitled to the coveted plaudit, "well done."

President Ragan resumes the chair.

Motion of Dr. R. T. Brown carried, that a committee of three be appointed to draft resolutions of respect to the memory of the late Governor, James D. Williams, ex-President and an eminent member of the Board of Agriculture.

Committee appointed to report at evening session, consisted of Dr. R. T. Brown, Dr. A. C. Stevenson and Hon. I. D. G. Nelson.

SECRETARY'S REPORT.

GENTLEMEN: I have the honor to submit herewith the annual report and financial exhibit of the business of the Indiana State Board of Agriculture for the year ending December 81, 1880:

FINANCIAL EXHIBIT.

Receipts.

1880.					
Jan.	9.	Cash in hands of Treasurer		\$12,59 8	89
46	u	From State special appropriation	\$2,400 0	0	
June	10.	From State special appropriation	2,400 0	0	
Dec.		From State special appropriation	2,400 0		
		-		- \$7,200	00

5-AGR. REPORT.

_	_				·
Oct.	2.	From State Fair admission tickets	12,977	00	
"	68	From State Fair railroad admission			
		coupons	823	75	
		-			\$ 13,800 75
"	"	From State Fair amphitheater tick-			
		ets	\$1,351	30	
46	"	From State Fair entry fee (speed			
		ring)	955	00	
~	44	From State Fair sales of privileges.	2,330	75	
"		From State Fair rents of stalls and	•		
		pens	371	25	
		F			\$5,008 30
66	30.	From rents driving track (season).	\$110	00	V - y
April	24.	From rents walking match	•	00	
July	22.	From rents Colored Association		00	
o ury					
		From rents Gun Club	00	00	
Aug.	20.	From rents Colored Agricultural	400	~~	
		Society	100	00	
Sept.	15.	From rents Grand Army Republic.	120	00	
		<u> </u>			\$540 00
Feb.	25.	From R. P. Haynes, committee			
		money returned	16	00	
"	"	From old iron piping sold	1	75	
				 -	\$17 75
"	66	From insurance policy, old floral			•
		hall	•		\$493 30
	_	•		-	
\mathbf{T}	otal.	• • • • • • • • • • • • • • • • • • • •		,	\$ 39,658 9 9
				;	
		Expenditures			
Gener	al ca	sh orders			\$ 16,070 8 9
Premi	um	orders			6,553 00
	_	treasury			17,035 62
				_	21,000 02
\mathbf{T}	otal	•••••••••••••		;	\$ 39,658 9 9
				:	
	87	PATEMENT SHOWING DISTRIBUTION OF	EXPE	18E	3.
		General Expenses.			
·		•			
	_	per diem and mileage	- •		
Salari	es, Se	ecretary and General Superintendent	1,387	50	
Printi	ng ai	nd advertising	761	72	
	_	d stationery			
_		-		-	
		s, express, telegrams, etc			•
		and tools		77	
Insura	nce		898	15	
		past years paid		80	
	_	count			
VI V		_			
T	otal	•		•	\$10,174 50

ANNUAL MEETING.

Construction and Repairs.

Amphitheater rebuilt	\$ 600	00		
Roofing dining hall and repairs	207	35		
Lumber	510	06		
Labor on repairs (grounds)	753	03		
Hardware	121	26		
Machinery and repairs	790	86		
Moving buildings	70	00		
Whitewashing	19	85		
m . 4 . 1			49 070	11
Total			\$ 3,072	41
Current Expenses of State Fair.		2.5		
Gate keepers	\$ 182			
Ticket sellers	157			
Assistant general superintendents		00		
Assistant department superintendents	143			
Woman's department	447			
Committees on awards	288	5 0		
Police	482	00		
Engineers, sweepers and care-takers	291	54		
Printing tickets and badges	93	75		
Straw	160	55		
Fuel	3 0	5 0		
Rent of show-cases, coops, etc	108	3 9		
Gas	135	28		
Music	88	00		
Decorations	25	00		
Specialties—speed ring	150	00		
			\$2,823	46
Premium Awards.		00		
Horse department.				
Cattle department			•	
Sheep department				
Hog department				
Poultry department	195	00		
	5,377	00		
Agricultural department—grain, etc	272			
Horticultural department	408			
Geological and Natural History		00		
Woman's department\$393 00		•		
Children's department 58 00				
	441	00		
Total	<u></u>		\$ 6,553	00
		•		
Total general cash and premium orders			\$ 22,623	37

STATEMENT OF COMPARATIVE RECEIPTS DURING STATE FAIR WEEK.

For 1876	\$6,842	70
For 1877	-	
For 1878	15,991	33
For 1879	22,915	50
For 1880	•	
In Treasury December 31, 1878	7,688	00
In Treasury December 81, 1879	12,598	00
In Treasury December 81, 1880	17,035	00

There are outstanding claims on accounts current unsettled, to amount of about \$300, and the interest coupons on the bonds of the Board due January 1, amounting to \$2,400.

The appropriation by the Legislature of \$10,000 to pay the interest on the bonds of the Board has been drawn as needed—semi-annually,—\$2,400 each time.

The bonds of the Board, amounting to \$60,000, are due January 1, 1881. The Fair ground property is mortgaged to secure the bonded debt.

There has been \$1,050 of guarentee bonds, assessment notes, canceled during the past year, leaving \$14,000 outstanding, on which 90 per cent. has been paid.

Assets of the Board.

23000 9 000 2500 01		
Thirty-six acres, Fair ground and buildings	\$100,000	00
Two and three-fourth acres, out-lots for railroad switch.	5,000	00
Library and movable property	500	00
Cash in treasury	17,035	00
Total	\$122,585	00
Liabilities.		
Sixty 8 per cent. five-year coupon bonds, due, \$1,000 each	\$60,000	00
Interest coupons on bonds due January 1	2,400	00
Appropriation from State Treasury	85,000	00
Assessment notes from guarantee bonds, to be returned		
from future profits	14,000	00
Outstanding claims	800	00
Estimated surplus	. 10,835	00
·	\$122,535	00

Insurance.

During the afternoon of the 10th day of December the building on the Fair ground known as the Old Floral Hall, of late years used for stabling, caught fire and was entirely consumed, on which was a policy of \$500, which was collected. The loss will amount to four or five hundred dollars.

The insurance on the Fair ground buildings at present is as follows:

Exposition building	.\$29,500	00
Stables on east side of grounds		
The old dining hall, formerly fine art		00
Dwelling house		00
	\$31,200	<u>00</u>

Divided among twenty-two companies, at the rate of 11 per cent. on the main building and 1 per cent. on the other buildings.

GEOLOGICAL DEPARTMENT.

The expenses in this department have been confined to placing the cabinet and museum in a proper condition for transferring to the curator of that department, as required by law.

400		Receipts.				
_ 188		<u> </u>				- 4
Jan.	9.	In Treasury		•	\$2,963	64
		Disbursements.				
July	29.	O. B. Gilkey, making cases and re-				
		pairs	\$ 104	25		
Aug.	6.	G. K. Green, labeling and arranging				
		cabinet	63	45		
Sept.	10.	G. K. Green, putting cabinet in order	50	00		
Oct.	9.	G. K. Green, classifying cabinet	62	00		
u	3 0.		5	65		
"	"	G. K. Green, arranging museum	79	29		
Nov.	27.	G. K. Green, arranging cabinet	27	75		
Dec.	14.	Wm. A. Green, arranging cabinet	21	00		
46	"	G. K. Green, arranging cabinet	37	65		
"	24.	O. B. Gilkey, making cases	248	80		
46	30.	G. K. Green, arranging cabinet	74	43		
"	"	Wm. A. Green, assistant, arranging				
		cabinet	19	5 0		
		-			\$ 793	77
Dec.	31.	Cash in Treasury			2,169	87
7	otal			- . • • • •	\$ 2,963	64

There has not been any litigation in connection with the business of the Board during the past season, or any protests on file, except a trifling matter in the woman's department. Several threatened suits and protests have been adjusted without the aid of the courts.

There was published 3,500 copies of the last annual Agricultural Report for 1879, of which one-third have been distributed to foreign States and countries. The demand for them has been unusual, and prompts the request for a greater supply to be printed in the future.

The State Industrial Associations and their connection with the Board of Agriculture are attracting attention abroad. This feature of industrial education should receive encouragement in every possible manner.

A meeting of representatives of the Boards of Agriculture in the Western States was called to meet November 30, and responded to on the part of your Board by Mr. Sample, Vice President Dr. R. T. Brown, by special invitation, and your Secretary. The object of the meeting was for consultation, to adopt a more uniform system and co-operation in the work of the Boards of Agriculture.

I have made a special report of the meeting as a representative from your Board, which is ready, at the pleasure of the convention.

It is presumed that the Superintendent of each department of the Fair will report thereof in detail, therefore I will only refer to some new features which are attracting attention abroad.

Although no premiums are offered in the Mechanical Department, but other encouragement instead, we secured the largest exhibition of agricultural machinery that has ever been seen anywhere, as stated by parties that make a business of exhibiting at State Fairs, and would recommend that the reports of this department be printed in pamphlet form at the close of the Fair. Our Fair is the pioneer in this feature, which will probably be adopted by other States; as also, the new feature of the Woman's Department. We have received many letters of inquiry as to the working of that department, which has proved to be such a grand success, and a useful auxiliary of the Board:

The business of the office continues to increase. During the past season there were issued over 1,300 general letters, 1,500 postal cards, about 12,000 circulars and premium lists, and 18,000 posters, large and small. Over 200 general cash orders have been issued, and 1,070 premium orders.

The work of the Board is almost unlimited in extent, in promoting the interests of agriculture, to show the vast resources of the State and how to best protect them.

Again, we are indebted to the press of the State, the railroad and

express companies and the Street Railway Company, tual aid and many special favors.

With much pleasure I acknowledge the kindness received on every hand.

Respectfully submitted,

ALEX. HE

TREASURER'S REPORT.

GENTLEMEN:—I have the honor to submit the A1 of the Tressurer of the State Board of Agriculture ending December 31, 1880:

chang December 51, 1000.	
Received from former Treasurer From specific appropriation	7,200
" Sale of 51,908 twenty-five cent tickets	12,977
" Sale of 8,925 Railroad coupon tickets	823
" Sale of 18,518 amphitheater tickets	1,851
" Entry fees, speed ring	955
" Sale of privileges	2,330
" Stalls and pens	871
" Rent of grounds	54 0
" Interest	150
" Insurance policy	498
" Specific	17
Total receipts	
Disbursements.	
Paid on general cash orders	
" Premiums	
" Notes on hand	
" Cash on hand	
Total	

GEOLOGICAL FUND.

1880.
Jan. 9. Received from former Treasurer......

Disbursements.

Expense orders No. 1 to 18 (being		
the same as itemized in Secretary's		
Report as published)	\$ 798	77
Cash on hand	2,169	87

\$2,963 64

Respectfully submitted,

J. A. WILDMAN, Treasurer.

January 4, 1881.

GENERAL SUPERINTENDENT'S REPORT.

To the President and Members of the Indiana State Board of Agriculture:

I deem it unnecessary, on my part, to make any special report of the receipts and expenditures under my supervision, as the same appear in detail in the reports of the Secretary and Treasurer.

Allow me to say, however, that I have endeavored to secure all the income possible and expend as little as was consistent with the reasonable accommodation of exhibitors and the comfort and convenience of visitors to the fair.

On assuming my duties as Superintendent, I found a great desire among the horsemen who patronize our track to have some improvements and changes made. After having several applications and proposals from different parties, I leased the dwelling and track to Mr. Webster Beymer for \$150 for the year, he to make the proposed improvements at his expense, and I to pay engineering expense. He made the changes and improvements suggested, coated the track with manure, plowed the same under and placed the track in first-class condition, and so far as I have learned the horsemen have been well pleased. A prominent one has assured me that it is not excelled, in some respects equaled, by any half mile track in the West.

In June last we were visited by a severe storm which blew down the amphitheater and did considerable other damage on the grounds. It was evident that it should be rebuilt if we expected to hold a successful Fair.

After consulting the President, Secretary, and a few members of the Board, met with in the city, it was deemed unnecessary to call a special meeting of the Board on account of inconvenience to the members, and the expense which would necessarily be incurred.

r.

After consultation with practical builders, a plan was ac which would allow of the use of the old material and giving as much seating capacity as the old one, the reconstructed bu being 400 feet long and 22 feet wide. Working drawings and ifications were prepared by Mr. O. B. Gilkey, a practical b Proposals were advertised for through the city papers, and a ber of bids received. The lowest bidder was Mr. Peter R one of the most reliable and energetic builders of the city. I was accepted and the building completed in the time spe The work is plain but substantial. Perhaps it will not be place to say here, that the bid accepted was very much lowe any other received, to-wit, \$600; and also very much lower t or any one whom I had consulted, thought it could be done. was some work not included in the contract, amounting to bly \$50. It was found absolutely necessary to re-roof the old hall. An addition of 24 feet in length was built to poultry l building put up on the west side of the ditch, convenient hog and sheep pens, and cattle stalls for stock; Superinten and Committee headquarters; a new water closet for ladie one for gentlemen; octagonal lunch stands removed and con into sheep pens; a considerable portion of the sheep per cattle stalls re-covered with shingles, saved from the wreck amphitheater. A large amount of repairing was necessarily to fences and stalls, both of which on the north and west very bad condition.

The octagonal building, generally known as old floral has which has for several years past been used as a stable, was, us nately accidently burned a short time ago. Fortunately, the rather expensive and valuable building, it had ceased to be sential one.

The members of the Board certainly have good reason gratified at the success of the fair of 1880, which must pass in tory as one of the most successful held since their institutio greater than could reasonably have been expected under suring circumstances.

While no department was lacking in interest, that of agricult machinery was eminently superior, both in amount and qualany exhibition heretofore made on our grounds, if ever equalany grounds. In fact, it is the opinion of gentlemen who has ited the most noted fairs of this country and Europe, that of hibition was superior to any ever made before.

In the condition of uncertainty in which we find ourselves as grounds, I consider it useless to make suggestions as to imments or changes on the same.

X

I would advise no expenditures at present, except what may be absolutely necessary for the preservation of the property.

In conclusion, I tender my thanks to the members of the Board for their support and courtesy, and especially to the President and Secretary, who have been my special advisers.

FIELDING BEELER,

General Superintendent.

REPORTS FROM DEPARTMENTS.

HORSE DEPARTMENT.

HENRY C. MEREDITH, Superintendent.

The show in this department was very fine in all the classes, and gives evidence of a marked improvement in the quality of our horse stock, though the exhibition was not quite so large as the year previous.

The show of stallions in all the classes was excellent, showing that our farmers and breeders have every opportunity of using the best sires, and that they are enterprising in using them. The evidences from all parts of the State show that the thoroughbred trotter and heavy draft horses are being extensively brought into the State, and of the very best quality of their several classes. We have now some of the best and most fashionably-bred trotters and runners within our borders that the country affords, and large amounts are being annually expended in bringing both Normans and Clydesdales of superior quality, which, added to the stock of old and careful breeders, gives us a grand start in the profitable and useful industry of horse breeding.

The list of entries was as follows:

Book 1—Thoroughbreds	11 entries.
Book 2—General purposes	62 entries.
Book 3—Light harness	50 entries.
Book 4—Heavy draft	
Book 5—Runners21 entries.	
—Trotters23 entries.	
-Pacers 7 entries.	
Total speed	51 entries.

Book 6—Saddle horses Book 7—Sweepstakes Book 8—Jacks and mules Book 9—Jacks and mules (sweepstakes)	55 29	entri entri	es. es.
Total number of entries	82 1		
Receipts, entry fee of speed ring	••••	\$ 955	00
Receipts, rent of horse stalls	••••	269	00

In view of the small premiums which our Society offers in comparison with other similar associations, I would advise allowing horses—especially geldings and mares—to be shown in any class where the owner desires. This would allow saddle, harness, general purpose, thoroughbred and trotters to show in any or all classes. It would increase the number of exhibitors to attend the Fair, for they would thus stand more than one chance, and it would not cost the Society anything additional.

I would recommend that a class be opened for trotting-bred horses, as there is now a standard record of their pedigrees—the main requirement to be that they be recorded to be eligible to show in the class. It will be necessary hereafter to join the National Trotting Association, as a late rule practically expels from their tracks a horse that trots at a fair on a non-association track. I am satisfied, with two years' experience, that the Horse Department of the State Fair can not be a success hereafter unless this is done.

My successor can avoid much of the hard labor that has devolved upon both the marshal and myself by having printed programmes of the show, as it will take place, and posting in each stall, making a requirement that the exhibitors be in the ring within a certain stipulated time. Very much time is consumed in waiting on tardy exhibitors, who would, if required to look after their own affairs, instead of depending on a marshal to look them up when wanted, be on time and ready for the show.

I am glad to say that there was very good feeling generally among the horsemen, and quite good order prevailed, especially on the days when there was the largest attendance. The committeemen in this department were all competent and expeditious, and their decisions gave general satisfaction.

There was a general disposition among all to do everything they could to make the show a success, and I hereby acknowledge my obligations to the exhibitors for the interest manifested.

CATTLE DEPARTMENT.

ROBERT MITCHELL, Superintendent.

Mr. President and Members of the State and Delegate Board of Agriculculture:

Having in charge the Cattle Department, I have to report that the show of Short Horns was excellent in quality, and nearly all that were on exhibition were from our own State, with only one exception—a herd from Ohio. The exhibitors were Thomas Wilhoit, of Henry county; E. Clare, of Montgomery county; J. Baugh & Son, of Tippecanoe county; S. R. Quick & Son, of Bartholomew county; Samuel Pursell, of Marion county, and David Selsor, of Ohio.

The Jerseys were also well represented, and much interest was taken in the exhibit by the breeders of this class of cattle. The breeders were Churchman & Jackson, of "Beach Grove Farm;" W. J. Hasselman, of Indianapolis; A. Garrettson & Bro., Pendleton; R. S. Dorsey, Indianapolis; W. A. Ketcham, city; J. W. Myers, of Jennings county, and Mrs. A. Wallace, city. I would recommend that a herd premium be hereafter offered by the Board for this class of cattle.

A pair of Polled Angus cattle were exhibited by Baugh & Lutz, of Farmers' Institute, Ind., which attracted much attention. This breed of cattle is held in high esteem as beef producers by the farmers of their native country (Scotland).

Devons and Ayreshires had but a few representatives at the Fair, but those on exhibition were good specimens of the breeds. Total number of entries in Cattle Department, 178.

I might here, with propriety, recommend that the premiums on cattle be increased, in order to draw larger exhibits of this important branch of agriculture to our annual State Fairs.

SHEEP DEPARTMENT.

S. R. QUICK, Superintendent.

I have the pleasure of submitting to you a partial report of the Sheep Department. There were 247 entries, being a greater number of entries than ever before was on exhibition at any fair in this State. They were of the following breeds: Cotswolds, La Lincolnshires, Shropshire-downs, Southdowns and Merit the Cotswolds predominated. Nearly all that were showner beginners, some being the best that ever were exhibited States. In the Cotswolds there was quite a spir test, there being seventy-seven entries, and quite a num imported from England and Canada, and in the sweepstal were seventy-seven entries, there being as high as twenty the ring at one time contending for the same premius everything passed off quietly and with the best of feeling the exhibitors and the members of the State Board.

The committees had an arduous time, as all the she good and the majority of them were deserving, and th were as thick as the fallen leaves of autumn. But the cot did their work so well that I heard of no dissatisfaction accommodations for the sheep men were much better they year, and they expressed their pleasure with the arrange made by our General Superintendent in making ample all the sheep that were on exhibition, and the office for the intendent was quite a pleasant surprise to the exhibitors and great convenience, highly appreciated by all. The sheep shown in a ring for that purpose, which was much appreciate exhibitors, as well as committees, and they all express pleasure with the exhibition, with a promise to be with us

SWINE DEPARTMENT.

DEMPSEY SEYBOLD, Superintendent.

The swine shown at the exhibition of 1880 were probab large in numbers as at some of the previous fairs, but for v breeds and superior excellence in quality and attractiven pearance, have never been equaled. The number of an exhibition was nearly four hundred head, consisting of one and seventy-five Poland China, one hundred Berkshires, a breeds amounting to one hundred, consisting of Essex, Chester Whites, and Jersey Reds.

The animals exhibited were not all the product of India breeders encountered sharp competition from those of (nois and Michigan, and some premiums were borne off by exhibitors from other States.

There were several subjects connected with the swine exhibition which were very freely discussed by exhibitors in a becoming temper, and which were spoken of by others wholly unconnected with the swine exhibition. These matters of complaint it was the desire of exhibitors to have brought to the attention of our State Board, so that they could be duly considered, and such changes made as might meet the pressing demands of not only exhibitors at our fairs, but the entire public who are interested in this branch of agricultural pursuits. And before remarking further, I wish to premise that there was no disposition exhibited to indulge in unreasonable fault-finding of the State Board.

The representatives of the swine interests are fully aware of the financial difficulties they have to contend with. While all this is true, the proper and kindly presentation of claims and complaints of swine exhibitors will surely be no offense to any one, and will enable the Board, in the future, to make an effort to meet all the reasonable demands of those who exhibit swine at our State Fair. There is one point that we wish to consider, and that is the insufficiency of the amount offered as premiums in the swine department, in proportion to the money value of this branch of the industry of our State. Not having the statistics of this branch of our industry at hand, yet I think that the hog yields more money to the farmers of the State than either horses or cattle, and probably more than both. By reference to the premiums offered by the Board for the year 1880, we find there was offered in the swine department the sum of six hundred and forty-four dollars, and in the horse department twenty-five hundred and seventy-eight dollars; four times as much as in the swine department. The breeders of swine claim, and we think justly, too, that there should not be such a wide difference made in the two departments, and the comparison would be about the same in some of the other departments. There is another point in connection with this subject which can not be too often or too pressingly urged upon the attention of those connected with the management of fairs.

I refer to the want of proper arrangements for bringing competing animals in direct juxtaposition, so that swine committeemen may have the same opportunity for close critical examination and comparison that judges of horses, cattle, sheep, etc., have. Such comparisons are indispensable to direct conclusions, and yet committeemen in the Swine Department have no opportunity for such close comparison; on the contrary, they are expected to clamber over from eight to a dozen pens to examine animals that are some-

times two or three hundred yards apart. They have not only this severe labor to perform, but they are expected also to carry in their minds the precise minute differences that may exist between a dozen of close competing animals of like general appearance. The committee on horses and other domestic animals have no such hardships to endure or difficulties to encounter. The competing animals are directly before them. The best possible facilities are offered the judges to facilitate them in coming to correct conclusions.

The Swine Breeders Association, at their meeting last winter, requested the State Board to classify the different breeds and place each breed in a separate division, which was carried out, and I would recommend a continuance of that plan, as I think it works well. In order to try to obviate some of the difficulties stated above, I called the attention of the President and the General Superintendent to the matter early in the season, showing the necessity of some better arrangements for the exhibition of swine, but owing to the financial condition of the Board, I suppose there was nothing done. We had to do the best we could under the circumstances by using boxes and hurdles belonging to some of the exhibitors and occupying the space between two of the divisions of pens. We succeeded in getting the competing animals close together, but it was not only dangerous but an injustice to some of the exhibitors, especially those exhibiting sheep, and in this connection I wish to return thanks to Mr. Cal. Darnell for his gentlemanly forbearance with us for obstructing the sides of his pens so as to exclude visitors from seeing some of his sheep for a good part of two of the best days of the Fair. The committee appointed by the Board reported promptly and discharged their duties faithfully and impartially. The competition in some of the classes was sharp and close, so much so that the committees had great difficulty in making their awards; particularly was this the case on Berkshire pigs under six months, and yearling Poland China sows, and on sweepstakes on Poland China sows.

The very best of feeling prevailed during the entire week, both among the breeders and exhibitors, and I think the week was profitably spent. In this connection I wish to return my thanks to all of the exhibitors for their gentlemanly treatment, and for the interest they manifested in order to make the exhibition a success, and especially to Mr. Joseph Winn, of Greensburg, my assistant.

EXHIBITORS IN THE SWINE DEPARTMENT.

Poland Chinas.

Shepard & Alexander of Charleston, Illinois, exhibited seventeen head.

D. L. & G. W. Thomas, Rushville, Ind., exhibited fourteen head.

J. Cunningham, Muncie, exhibited fifteen head.

Dick Jones, of Columbus, exhibited thirteen head.

M. Slaughter, of South Charleston, Ohio, exhibited fourteen head.

W. A. Macy, of Lewisville, exhibited four head.

A. W. Ross, Muncie, exhibited nine head.

Lon Hunter, Marion, exhibited eight head.

Mugg & Seagrave, Center, exhibited twenty-four head.

A. Martin, Muncie, exhibited four head.

W. A. Robins, Greensburg, exhibited nine head.

Gilmore & Craig, Greensburg, exhibited five head.

Jersey Reds.

E. Wright, New Augusta, exhibited twenty head.

Berkshires.

I. N. Barker, of Thorntown, exhibited eight head.

Gilmore & Craig, Greensburg, exhibited nineteen head.

James Riley, Thorntown, exhibited eighteen head.

A. C. Shortridge, —, exhibited six head.

J. T. Harris, New Maysville, exhibited fourteen head.

Heck & McCally, Waldron, exhibited nineteen head.

R. T. Corwin, Mount Summit, exhibited seven head.

W. H. Sphar, city, exhibited four head.

John Heavenridge, Liberty, exhibited fourteen head.

F. M. Pitzer, Kokomo, exhibited seven head.

J. M. Leach, Dunlapsville, exhibited eleven head.

Adam Martin, Muncie, exhibited one head.

Wesley White, of Pendleton, exhibited three head.

Essex and Suffolk.

Frank Wilson, Jackson, Michigan, exhibited twenty-seven head.

Chester Whites.

R. S. Russell, of Zionsville, exhibited twenty-seven head.

POULTRY DEPARTMENT.

B. H. HANCOCK, Superintendent.

Mr. President and Gentlemen of the State and Delegate Board of Agriculture:

In accordance with the custom of the Board, I make the annual report of the Poultry Department at the State Fair of 1880. There were 320 entries, and as good an exhibit of poultry as was ever made in this State or any other. We had poultry exhibited that took the premium at the National Poultry Show here one year ago. The Secretary, by consent, telegraphed to Ohio and secured the services of an expert, Mr. Samuel White, to pass upon the poultry exhibit. I think he gave entire satisfaction. If there was any one dissatisfied with his awards, I did not hear of it. I would recommend that experts he employed to award premiums in all the departments, as far as practicable; I think it would give better satisfaction. I would recommend, also, that empty coops be furnished exhibitors; that their coops be set outside the house, and when a certain lot or kind of poultry is called for, that the exhibitors move their poultry in these empty coops. The judges will then have the exhibit all before them, instead of going all through the house to find them; it will save time and give the committee a better opportunity to do their duty. All of which I respectfully submit.

AGRICULTURAL DEPARTMENT.

J. W. Cofield, Superintendent.

The exhibition of agricultural products exceeded, both as to quality and quantity, that of any previous year for many years past—the corn exhibited was of the very finest, including a great many varieties, in fact, more than has ever been exhibited at any recent State Fair.

The display of wheat was excellent in quality and variety. Of the varieties shown, the Foltz and Mediterranean or Red Wheat, were the leading ones.

The exhibition of garden products was large, and as good as has ever been shown at our fairs, and shows that the crops were abundant, and, as was the case in our State the past season, exhibitors were willing and anxious to compete with their neighbors for the ascendancy in the growth of their individual products.

HORTICULTURAL DEPARTMENT.

L. B. CUSTER, Superintendent.

As Superintendent of the Horticultural Department at the last State Fair, I beg leave to submit the following report:

In this department the display of apples, pears, peaches, quinces and grapes was very creditable, but not equal to former years, when the premium list was more attractive. The premiums now offered are not sufficiently large to attract exhibitors from a distance.

- W. A. Ragan, E. A. Eickhoff and G. Poindexter & Son, in the professional, and Mrs. Wallace, A. B. Shellady and some others in amateur list, made very fine displays of apples, pears, peaches, etc. W. A. Ragan was awarded the premium for the best display of fruits of all kinds, professional, exhibiting ninety-one plates of apples, eighteen of pears, twelve of peaches, nine of grapes, seven of quinces and one of persimmons. Mrs. Wallace was awarded a similar premium as an amateur exhibitor.
- T. S. Hubbard, of Fredonia, New York, exhibited a plate of the "Prentiss" grape, a new candidate for the public favor, a white grape of excellent quality, and said to be hardy and very productive.
- E. A. Eickhoff and T. C. Barnum, made very fine displays of nursery stock. Unfortunately for Mr. Barnum, he failed to make an entry of his stock until the books were in the hands of the awarding committee.

As improvement in agriculture, horticulture, stock-growing, etc., is the mission of the State Board of Agriculture, I would suggest that we advance one step in the horticultural department by adopting a standard of excellence (if you please to call it such) to guide awarding committees in making their decisions. The need for such a standard to guide the judges in the proper performance of their delicate and arduous duties has often been painfully apparent. I would also recommend that premiums be offered for single plates of the most prominent varieties of apples, and that clasps be provided to fasten labels to the plates, so that they are at all times in a conspicuous place, and can not be misplaced by persons examining the fruit. We need to look more to giving information during the fair, and clear, distinct and accurate labels would be a valuable acquisition.

In the floral division, the contributions fully occupied all the space that could be obtained for this department, and the contributors arranged the plants so as to produce a fine effect, which added

much to the attractions of the exhibition. It is a fact, I that the owners of some of the best collections of plants dec bring them out, on account of the inferior accommodatic vided for the floral display. The hall in which it was mad open that the chilling winds prevalent at that season are des to delicate plants, and the liability to damage from frosts, r it unwise to bring out that class of plants most useful in n display that will attract attention and please those who 'State Fair, expecting to find the various departments sur those of local exhibitions.

To render this department what we believe it ought t consider it essential not only to provide a building tight en protect plants from inclement weather, but also to give pr of sufficient amount to repay the actual loss occasioned by rary removal of the plants from their congenial quarter conservatory. If the amount devoted to floral premiums be increased, we believe it would be advisable to diminumber of premiums so that the amount of the remaining increased.

Few departments of the Fair are more beautiful, instruelevating in their character than that devoted to Flora, character of the State and the intelligence of the Board of ture will be estimated in some degree by the character of partment at our annual exhibitions.

TEXTILE FABRIC DEPARTMENT—WOMAN'S BO! INDUSTRY.

MARY E. HAGGART, Superintendent.

Mr. President and Gentlemen of the State Board of Agriculture:
In reporting the work, the success and the exhibit of the
Department, I will condense as much as possible, and at t
time give a thorough and just account of the success of o
and the results of our work. Entries made were as follows

Textile Fa	bri¢
Domestic :	Manufacture
Knitting a	nd Crochet Work
Lace Worl	6

Embroidery and Braiding	191
Sewing—Machine and Hand	46
Miscellaneous	179
Dry Goods and Millinery	7
Culinary Articles	110
Children's Department	91
Special Premiums	85
Total	1029

Which is 163 short of the number of entries made in this department last year. To the casual observer this, no doubt, would indicate a falling off of interest, both in our workers and exhibitors; but when a careful view is taken of the matter it will be seen that the number of entries was greater than ever before, when a comparison of the rules governing the last and all former exhibitions is made. When it is considered that a rule excluding all articles that had heretofore drawn two premiums was strictly enforced, 163 entries less this year of the Fair than last will seem, and is, in reality, no falling off at all, but rather a very forcible demonstration of the fact that a truly fine and splendid exhibition can be kept up by ruling out old articles that have really become so familiar to visitors that all decent respect for them, and their creators, is killed. The strict enforcement of this rule is also a complete explanation of why the full amount of our premium estimate was not paid out. The same old quilt, counterpane, rag-carpet, shell-work, or whatever it may have been, that had been pensioned on our department for years, and drew as regularly as pay-day came around, was ruled out, and as a natural consequence not so many entries were made; but, gentlemen, the wisdom of instituting and enforcing this rule is not by any means as apparent now as it will be next year and in the future years to come. Out of strict adherence to it will grow future beauty, variety and freshness in the exhibits of this departmentsuch beauty, variety and freshness as have never before characterized any of the exhibits of this department. The age demands that these very things must characterize exhibitions of all kinds whatsoever to insure their financial success. It should also be borne in mind that premiums were offered in our department for several new kinds of work, none of which was placed on exhibition. However, we have every reason to expect a full and fine exhibit in these new classes this year, and that the number of entries will exceed those of all former years.

FINANCIAL EXHIBIT

Of the Business of the Woman's State Fair Association for Year 1880.

Receipts.

From the State Board of Agriculture
Total
Expenditures.
Premium orders
Diplomas
Awarding committees
Improvements and repairs
Supplies
Rent of show-cases
Stationery and postage
Labor in Woman's Department
Entry clerk hire
Traveling expenses of visitors to seven county fairs
Salaries
Balance in treasury State Board of Agriculture Balance in treasury Woman's State Fair Association
STATEMENT OF COMPARATIVE EXPENDITURES.
1879.
Premium awards
Rent of show-cases (150 ft.) 59 00 200 ft.
Awarding committees 73 00
Improvements and supplies 100 00
Entry clerks
Labor of assistant superintendents 32 00
Stationery, postage and diplomasNo estimates.
Expenses of visitors to fairs
Total expenses, excepting salaries\$726 00
Salaries 100 00
Total expenses\$826 00

A rule was adopted and enforced in our department, requiring all exhibitors taking show-case space to pay a reasonable rent for all room occupied over three feet. This rule worked admirably, and the utmost satisfaction to exhibitors having fine and delicate articles was the result. Thus you will see that by the judicious exercise of a little brain force we women have been enabled to economize in the matter of show-case expenses, although fifty feet more space of this kind was used for our last exhibit than for any former one.

The new rule respecting the manner of making entries was also found to be a wonderful help in simplifying and making easy this special kind of work; consequently not so many clerks as usual were required. Here, also, you will see a great saving growing out of economical methods.

It should not be forgotten that time, thought and labor have been freely expended by the women interested in the success of this department in order to systematize and classify all articles on exhibition in regular order and as the books were numbered; and we should also bear in mind that by having the work divided among efficient department superintendents, this matter of system has almost been made perfect. On account of such order and classification not near so many judges were needed, and a large saving was made in doing away with all but one man assistant. It will be seen at a glance that each class of work having in charge a responsible superintendent, places the whole exhibit under a supervision and guardianship equal to just so many efficient policemen in the prevention of loss and theft.

An unaccountable destruction of the show-case tables and other carpenter work in our department silently goes on from year to year, and when the work of repairing and replacing these missing tables, etc., is completed over and over again, we are politely reminded by some of the General Superintendents in their reports, "that it is to be hoped the ladies are now fixed up permanently in their department;" but, lo! when the tables are needed they are not there, all the same.

Only one article out of the entire exhibit has been reported lost, and it of minor value.

Of the one thousand dollars appropriated by you to carry on our department, one hundred and nine still remain in your treasury—which is the difference between the amount of our premium estimate and the amount of our premiums paid out. Gentlemen, concerning this \$109, I have just one question to propound—to whom does this money rightfully belong?

In submitting this report, I will suggest that for the good of our

BOARD OF AGRICULTURE.

partment and all concerned, the Woman's Board issue the premium orders from their departmenty be empowered personally to disburse all money, emiums, appropriated to conduct their department, as jurisdiction of the women over said department arly and specifically defined.

will here take the liberty to reiterate the suggestic s. Adkinson in her report last year, namely, that i d an exhibition of more than two or three days, the I pening at the beginning should commence in the m sk. There are so many reasons, true and good, why done, that I have no time now to enumerate them. If course, gentlemen, in submitting this report for y tion, we wish to impress it upon your minds, that i secute successfully the work of this department, as interests of our women exhibitors, an appropriation ial in amount to that appropriated last year, should t hands of the Woman's State Fair Association for th lit is earnestly desired, that in case you retain perm position grounds and buildings, that the sum of \$200 ϵ priated us for the purpose of making useful, indispemanent improvements in our department.

t now remains for you, after hearing the report of il of a plan of work which was accepted by you as nt, to give a full expression of your approval or dis plan, and to say whether it shall be carried out by on ther year's work.

AGRICULTURAL MACHINERY DEPARTMI

R. M. LOOKHART, Superintendent.

he display in the Agricultural Machinery Department immense. That portion of the grounds allotted to arm machinery was entirely inadequate to allow the ifficient amount of space to make a full and fair displace. It is very gratifying to the Board to see the largurers not only of our own State, but many of the oending each of our annual State Fairs.

t was a question in the minds of many of our men proposition was made to strike off all premiums nical department, as to whether the manufacturers ue to make a display at our annual fairs. But it has oughly demonstrated that all the manufacturers require is ample accommodations to enable them to show their goods properly, and they are willing to take their chances of making a better trade for their manufactures. Several of the largest manufacturers have already erected buildings at their own expense, in which they show their goods, and several more have made application for space on which to erect buildings before the next fair.

I think more space should be given to that department, in order to accommodate all who may desire to make an exhibit.

The great improvements made in machinery within the past twenty years have almost entirely changed the manner of doing the work on our farms, and it would seem as though no further improvements were possible. But each annual fair shows some new and useful inventions.

CARRIAGE, WAGON AND FURNITURE DEPARTMENT.

J. N. TURNER, Superintendent.

The largest, as well, perhaps, as the most interesting and important department of the Fair was the Mechanical; that portion of the department assigned for my supervision embodied the useful and beautiful, taking in a wide range of articles; consisting in part of carriages, furniture, upholstery, carpets, paper-hangings, willow and wooden ware, burial cases, etc., all of which reflected great credit on the skill and genius of the artisan; exhibitors were rewarded for their efforts by the admiration of thousands of visitors who daily thronged the avenues, and at every turn saw something to admire in the handiwork of the skilled workman.

Each annual exhibition brings with it indisputable evidence of the rapid progress and advance in mechanism; useful and laborsaving inventions are monthly presented to the public, keping pace with the demands of this fast and wonderful age of improvement and progress, and the merits of these inventions are quickly recognized and as quickly utilized.

Many of the articles on exhibtion deserved the special notice of the Committee, and their merits presented to the public in comprehensive reports that will do justice to the exhibitors; they are entitled to this "special mention" of articles, as no premiums are awarded in this department..

As a Co-Superintendent with Mr. Lockhart of the Mechanical Department, and as a member of the State Board, it is with pride that

we can present to the "Delegate Board" the report of as cessful Fair. Although the receipts were not quite so larg yet the exhibit was acknowledged to be superior, at leas of the departments. The Presidential campaign detracts extent interest that would otherwise been taken in the was predicted by several of the members at our busine of last February, but the result over-reached expectation can congratulate President Ragan upon a successful adm and can truthfully say to the "Delegate Board," although embarrassed the State Board of Agriculture is progress entitled to a hearty support and co-operation.

The Superintendents of the following Departs ported verbally:

EDUCATIONAL AND ART DEPARTMENT.—J. A. Superintendent.

GEOLOGY, NATURAL HISTORY, ETC.—Prof. John Superintendent.

POWER HALL AND ENGINES.-W. B. SEWARD, Sup-GATES.-John P. Barns, Superintendent.

AMPHITHEATER.—R. P. HAYNES, Superintendent. PERMITS.—JACOB MUTZ, Superintendent.

The Chair appointed the committees from the to act with the regular committees of the Board:

On Finance.—On the part of the Board: Messra. Sutherland and Turner. On the part of the Delegate Ratliff and Davidson of Gibson.

On Rules and Regulations.—On the part of the Board Mutz, Meredith and Seybold. On the part of the Delegate Gilbert and Jackson.

On Fair Grounds.—On the part of the Board: Messrs. Q ter and Barns. On the part of the Delegates: Messrs. Lo Montgomery and Lockridge of Putnam.

On Premium List.—On the part of the Board: Mesers. Sutherland and Hancock. On the part of the Delegate Willey and Kirkpatrick.

On Unfinished Business.—On the part of the Board: Mee hart, Haynes and Seward. On the part of the Delegate Graham and Riley.

On Geology and Statistics.—On the part of the Board: Messrs. Seward, Mutz and Cofield. On the part of the Delegates: Messrs. Elliott and Johnson of Marion.

Nominations of candidates to fill the places of the retiring members of the Board, being next in order, the following named persons were placed in nomination:

Fifth District—T. W. W. Sunman of Ripley and D. F. Willey of Clark.

Sixth District—S. R. Quick of Bartholomew.

Eighth District—Joseph Gilbert of Vigo and Dempsey Seybold of Clay.

Ninth District—W. H. Ragan of Hendricks.

Tenth District—N. R. Elliott of Henry and H. C. Meredith of Wayne.

Eleventh District—Nelson Pegg of Randolph, J. P. Barns of Madison and Geo. W. Miller of Jay.

Twelfth District—J. K. O'Neal of Tippecanoe and Henry La Tourett of Fountain.

Thirteenth District—John N. Turner of Grant and Capt. T. M. Kirkpatrick of Howard.

Dr. R. T. Brown, of Indianapolis, was then introduced by the President, who proceeded, as per published programme, to read an interesting address on the "Review of Agriculture in Indiana," which was followed with discussion by Mr. Woods, of Lake, Dr. Brown and others.*

On motion of Mr. Mutz, Secretary Heron read report as delegate to the Inter-State Agricultural Convention, held at Springfield, Illinois, last November.

To the Indiana State Board of Agriculture,

GENTLEMEN:—In response to a call for a meeting of representatives of the Boards of Agriculture in the Western States, at Springfield, last November, your Board was represented by the Vice-President, Mr. Sample, Dr. Brown (by special invitation), and your Secretary.

^{*} All of which will be found published elsewhere in this report, under the head of cases matter.

The object of the meeting was to adopt some uniform lecting and reporting the crops in season, in the dist the principal grain and meat producing States. The States represented by twenty-five delegates, being the of the kind—and will no doubt be productive of goo

Indiana was honored by the selection of the preside. T. Brown, who also furnished an appropriate papsion, the subject being "The relation of State Boards Department of Agriculture," which was read by him much attention and comment.

A paper referring to the agricultural interest in Ir by your Representative. Several other papers on di were read, producing general discussion and endin of resolutions. [Herewith omitted, as the same are where in this volume, in the proceedings of the Intertural Convention.]

It may be well to make the distinction between t reports" and "statistics," although of the same nature are statements based on an estimate of percentag compilation of individual opinions.

It is proposed to have for Indiana at least quarter in addition to the annual statistics as collected by the the Bureau of Statistics, the object being to get retion as to the crops produced, to the farmers, in the time. With us, this can be done by and through Statistics, conjointly with the Board of Agricultur some consideration at your hands.

It is also specially desired that you give expression a permanent organization of the Boards of Agricultu for mutual interests.

Respectfully submitte

ALEX. HEI

December 4, 1880.

Motion of Mr. Sunman carried, that the ceived and placed on file.

Motion of Mr. Riley carried, that the Pr dress, or so much as referred to premium list, the committee on premium list.

Motion of Mr. Lockhart carried, that a appointed to consider the suggestions of the 'partment, and report to-morrow morning. 1

hart, Willey, Gilbert and Elliott, of Henry, were appointed such committee.

Upon motion, a committee consisting of Messrs. Heron, Mutz and McDonald, was appointed to consider the suggestions in the report from the Inter-State Agricultural Convention.

On motion, recess was taken until 7:30 P. M.

EVENING SESSION.

Convention met, President Ragan in the chair.

The committee on resolutions, in regard to the death of Governor James D. Williams, ex-President of the Board, reported by the chairman, Dr. Brown, the following, which was adopted by a rising vote:

Death has made another vacant seat in this hall. The familiar face of Governor Williams will be seen no more in our councils. He has gone from among us by the inevitable road that we all must travel; but he went not till his work was done—his task accomplished. He went full of years and full of honors. Not the least of these honors was his life-long and faithful labor for the promotion of agriculture in all that related to its profit as a business and its dignity as a profession. Not even the allurement of politics, nor the fascination of office, could wean him from his early attachment to this pursuit.

As a feeble tribute to the memory of his worth and of his labors with us, be it,

Resolved; That a record of the death of Hon. James D. Williams be conspicuously made in the journal of the proceedings of this Board.

REMARKS BY DR. A. C. STEVENSON.

The late Governor Williams, long a member of this Board, has been removed by death from our midst. He was an honored and worthy member of this Board—cheerful, conciliatory, and a safe counselor, and universally beloved. In his death we have sustained a loss, the State has sustained a loss, in so good a man. Although we feel the loss, we should not repine at the decrees of a wise and beneficent Providence; still there are relations of consanguinity

that render these bereavements most distressing—the loss of a parent, a child, brothers, sisters, or other near relations, where heart is bound to heart by the mysterious cords of love. So strong are these ties that the intellect and life itself are often not able to withstand their severance. A very affecting illustration is recorded of David and his rebellious son Absalom, who had raised an army to overthrow his father's government. David's troops, under Joab, had gone out to meet Absalom in battle. It will be remembered that David gave instructions to spare the rebellious son, and his inquiry of the first messenger was, "Is the young man safe?" Of the second messenger the only inquiry was, "Is the young man safe?" The messenger answered, "Let all that rise up against thee to do thee hurt be as this young man is." And David wept, and thus he said, "O my son Absalom! my son, my son Absalom! would to God I had died for thee, O Absalom, my son, my son!" Such feelings only flow from noble and generous hearts.

The manifestation of affectionate regard by the late Governor Williams for the loss of his beloved wife was rather remarkable, especially on the occasions of his visits from the capital to his home. Memories of the past fast crowded upon him. Here was the house in which they had so long lived and labored together. Her vacant chair stands in its place still. At the generous board, where she had so long and generously administered to the wants of the family, she is seen no more. Here in her own private room, where the evenings had been so pleasantly spent in social converse, is her work table and the work basket with its implements—the needle work, the thimble, scissors, the unfinished knitting neatly rolled up and laid in its place, just as she had left it. These press drawers contain her clean, bright garments, ironed and folded away by her own hands; and as an evidence of her affection, she has laid close by her husband's new home-made garments. In the yard are the gentle birds that she fed from her own hands. In adjoining fields are the beautiful cows which furnished her table with rich milk and delicious rolls of butter. On every hand are seen reminders of his affectionate and beloved wife. The tears that are spoken of as having been often seen bedewing his aged cheeks are no evidence of weakness, but on the contrary they are the evidences of a sympathetic heart—of generous and noble impulses. Nor were those generous impulses ever abated by the honors conferred upon him by his own county in making him a member of the legislative body of the State, or his congressional district in making him a member of the highest legislative body of the nation, or his State in making him its chief Executive. Even the garments made by her hands, the beautiful jeans of wool from his own flocks, were worn to the last, notwithstanding the many imputations he received on that account.

But aside from these very natural and worthy sympathies of consanguinity, death is to be looked upon as a proper and wise assignment to man; it is appointed once for all men to die, and in reverence should this decree be accepted. Man's days are limited to a short period—three score and ten—and if beyond, it is sorrow and pain. This short life is doubtless a blessing to our race. Not that God has made this an unpleasant place for man; on the contrary he has made it most delightful. Ample provisions for his physical and mental wants have been provided; a land producing fruits, vegetables and cereals, flocks and herds, for man's sustenance and comfort; whose waters also administer to his food supply. Mental supplies may be had from the book of nature open before him, in hill and dale and towering mountains; in forests green; in shrub and flowering plant; in rivers, lakes and broad oceans; and the myriads of living animals that inhabit both land and water. These things God has richly provided for our comfort; still Divine Wisdom has found it for man's good that his existence here should be but for a limited period. It is a restraint upon man's evil propensities and evil passions. Divine Wisdom, foreseeing this propensity of the human will to evil, has very wisely placed a restraint upon man's wicked actions by holding before his eyes death.

In this bereavement we have a lesson it would be well to profit by. Although we are sad, yet we rejoice in the promises that are sure of fulfillment to the good. Sympathizing friends may be consoled with the thought that after a long life of over three score years and ten, that change has been a glorious one. "Mortality has put on immortality, and corruption incorruption;" and although the pleasures of this life to the just are the dispensations of a kind Benefactor, yet he reserveth still greater for the life that is to come.

Governor Williams was born in Ohio in 1808, and moved to Knox county, Indiana, with his father in 1818; he was consequently only ten years old when he landed in the wilds of Indiana. Here he lived and received a common-school education, such as was common in those days, and assisted his father in improving a farm. With a vigorous and observing intellect, he was soon regarded as one of the leading men of his county in regard to the business qualifications necessary to make him a successful leader. His ability and worth were not long concealed. He was early called to the discharge of public trusts, and the fidelity with which they were discharged continued him in public life until his death. Fine opportunities enable some to become great and good, and very justly

receive the admiration of all who know them. But much more deserving are those who, with poverty, a limited education, and a hundred other privations, become equally great and good. By industry, frugality, and a wise management of his business as a farmer, he accumulated a handsome fortune, and in addition to this he served his State as long and as faithfully as any man in it.

And here we would be pleased to stop were it not for some harsh criticisms which appeared in an obituary notice by a New York leading journal. The journalist was probably sincere (I would be unwilling to accuse him of insincerity) but at the same time greatly mistaken. I think it, therefore, the more necessary that I should at least enter a protest to the sentiments there expressed; others there may be laboring under similar errors. The following may be taken as a sample of the article:

"The late Governor Williams, of Indiana, belonged to a class of public men that used to be somewhat numerous, but has steadily diminished with the spread of intelligence—men who seek to attract attention and votes by some singularity of dress. Of late years Governor Williams was perhaps the most conspicuous example of this class. He was a man of mediocre intellectual ability, and it may fairly be said that he owed his election to Congress and his subsequent election to the Governorship of Indiana to his habit of wearing clothing made of "blue jeans," a coarse fabric made of mixed woolen and cotton stuff, much worn on account of its strength and cheapness by the poorer class of country people in the West and South. There was nothing in his circumstances which induced him to adhere to this serviceable and inexpensive sort of attire. He was a wealthy farmer, owning two thousand acres of fertile land and reputed to be worth the snug sum of \$100,000. He might have arrayed himself in the best broadcloth and cassimere, but he was ambitious of political honors, and his "blue jeans" suit was worn to identify him with the class of poor farmers, to which he did not in fact belong, and to gain their support. He rose into prominence during a period of industrial distress and business prostration. He shrewdly calculated that in such a time his homespun clothes would be accepted as representing simple habits and a desire for economy in public and private expenditures. He had no gifts as an orator or a writer, and no ideas concerning government save that a cheese-paring economy should be practiced in all its departments. When in Congress he chiefly interested himself in the expenses for soap and towels. When an ambitious politician of ordinary abilities dresses in a way to attract attention and comment, he advertises himself to all sensible people as a demagogue."

That the late Governor Williams were a coarse fabric of cotton and wool, worn by the poor class of country people, called jeans, merely to enable him to succeed in politics, is gratuitous and injurious to his memory. He was born and raised and passed his early manhood when the article spoken of was the almost universal

wear of the agricultural class of this country, and was home manufactured. Fifty years ago the big wheel occupied a conspicuous place in every farmer's parlor. Here the roaring of the wheels might be heard from early morn until late at night. The little wheel occupied a place near the hearth where the older ladies worked, whilst the younger ladies plied the big wheels. Upon the further corner of the hearth might be seen a large kettle containing the coloring material, blue dye, and not unfrequently the extract of walnut bark. In a separate building stood the loom generally; but if the weather became very inclement before the cloth was all woven, the loom was sometimes moved into the parlor for a few weeks for finishing up the work. When the webs were finished, the girls scoured them and the mother colored, as might be known for the following six months by her blue hands. The cloth was then cut and fitted and sewed into garments by the mother and the daughters. Thus was your Governor clothed, doubtless. The ladies of the household made the garments, whilst the boys fed and cared for the flocks that yielded the wool, and did the farm work generally. He was a farmer in the days of log-rolling, house-raising and barn-building. Men and women of worth were the product of these times, and here Knox county, under just these circumstances, found a representative, dressed in his farmer garb of blue jeans, made, doubtless, by his wife. Here, too, the congressional district found a safe representative, and the State a governor, still wearing his farmer suit of jeans. Did he wear his farmer's suit of jeans at home before his first promotion to office, to obtain promotion? If so, then the farmers of Knox county generally may be accused of the same thing. He wore the garb of the class to which he belonged—was not ashamed of it, nor of his class. But it is claimed that he should have put off his jeans and put on fine broadcloth, and as he did not, the inference is that he was of "mediocre intellectual ability." will not be contradicted when I say that it is not the dress that makes the intellectual man, or the man of worth. His worth would have been much less esteemed, and justly so, had he, upon his first election to the legislature by his county, assumed airs and laid aside this nice jeans suit, and dressed himself in fine broadcloth. firmness in standing by the habits in which he received his first promotion is highly commendable and evinces true worth rather than otherwise. His ability and fitness for office are well assured by his repeated promotions by those who knew him best and really needs no defense here by me. He is also charged with being cold, selfish and saturnine. An anecdote may well illustrate his pleasantry and his love of fun, which shall be my only answer to this charge.

7—AGR. REPORT.

BOARD OF AGRICULTURE.

on after the introduction of the sorghum or Chir was exhibited before this Board some beaut ps, the product of this plant; also two samples one brown and the other white; also a good sar bottle of rum. "Mr. Williams, there is damag c party in this (I remarked); sugar and syrut in every State sufficient, at least, for home cons iern sugar interest will suffer great loss-pove is the south is the main support of your party, y be crippled and you will all go down together bly, but, seemingly to recover, reached his long and slowly raised the bottle of rum above h it see. "Here, gentlemen, upon this plank the de safely swim when sugar is made in every State ra peculiar twinkle of the eye he set down th m free to express the opinion that the country ' fited were there more plainly-dressed public mer I in office at this time. Men of worth are rarely i exquisite toilet. Persons who desire to appear are, resort to this as an easy way to obtain it. 1 uxurious habits are too often the downfall of i ns. In this respect our late governor has left u hat we will not lose by to imitate. This State I re, of which he was so faithful a member, will be ory; and in assembling here upon this occasio ory, tender, at the same time, this Board's most to the members of his family.

REMARKS OF HON. I. D. G. NELSC

resident, Members and Delegates

of the State Board of Agric

t little will be expected of me that can add interedy been so well expressed in the preamble and a propriately commented upon by others, therefore the meeting with any extended remarks. I have ngle my sorrows with yours, and say that it is mently proper that this State Agricultural Board its records suitable words of respect to the me whole life has been so well employed in development of this now great and prosper he and who has been for so long a period identections, interests, growth and usefulness of this.

Governor Williams had an abiding faith in the belief that the prosperity of any country or people depended mainly upon the success of agricultural pursuits. Hence, he was ready at all times to prove his faith by his works. Thus, it was to his influence more than to that of any other man (being Governor of the State at the time), that material aid was furnished by the Legislature in the darkest hours of the financial peril of this Association. I know whereof I speak, acting as I did in concert with him, your efficient Secretary, and other zealous friends of the cause.

I have served with him officially on this Board, in the halls of legislation, and more recently, and at the time of his death, in a still more important public trust, and always found him the same genial, honest, faithful, pains-taking co-worker in every position.

Although deprived of the advantages of an early education, except such as the primitive log school house furnished, which was his graduating college, as he expressed it—and other facilities for obtaining literary knowledge poor-still, all the avenues to general information were not closed to him altogether. From his inquiring turn of mind he soon became a great newspaper reader (the great public educator of the masses, as it unquestionably is), and quickly became better versed in political economy and the affairs of State, especially its finances, over which he kept a careful watch when in a position to do so, and for which he was more noted than most men of his day. Accordingly, he was frequently called from the plow to the councils of State, where he always sustained himself so well, that after a brief experience he was considered one of the best parlimentarians in either branch of the Legislature. So well did he stand, that on one occasion he received the unanimous nomination and support of his party for United States Senator, in opposition to Governor Morton, and at the next session of the Senate an unusual and extraordinary compliment was paid him by his political opponents, by making him chairman of the Committee on Public Accounts.

It was in the Legislature of 1852-3 that I first became acquainted with him. During that tedious session of nearly six months he was one of ten or twelve out of the one hundred and fifty members of the two Houses who met in the hall of the House of Representatives every Friday evening to discuss agricultural matters. The proceedings of those meetings were regularly reported for the next morning papers by Lewis Bollman, Esq., who was also an active participant with us, and who is still living I think; besides whom, I believe, there is not another.

Those discussions attracted as general attention and were published as extensively in and out of the State, especially in agricul-

tural papers, with as much apparent interest as if had emanated from the Legislature. Various ag were discussed pretty fully, but the importance of to the country and the comparative value of the dwere among the chief subjects of discussion. The clover as a renovating crop was generally concede was Governor Williams's special favorite as a pernotening pasture, which idea he adhered to up to death, claiming that it was the farmer's gold micapital; and no man knew better than he how to "of grass grow where but one grew before," or how profitable returns to the farmer than he did, as his as an agriculturist abundantly demonstrates.

The continuance of our friendship was warm and closing with the last days of his illness, and assistin mains to his own county, where his townsmen and the right to receive it and complete the last obse which were performed by them in a most becomin

Although much in public life, he never forsook profession, but always returned to the farm as soon any public trust. Neither advancing years, nor th magistrate of the State, prevented him from giving tion to his large estate at his native home, and he le the day with much satisfaction when he would be the cares of State, and be again permitted to devo years to his favorite pursuits.

Governor Williams always had a warm side for the country, for he was one himself, and was we many of the "old settlers' meetings" in all parts of official and other duties would allow. On these of peculiarly felicitous, being always ready with a furquaint and interesting incidents, calculated to refrof early days, by reciting youthful sports, internand hardships of rural life among frontier settlers, the eye and seemingly restored the glow upon thand renewing imaginary youth to many aged m present on such occasions.

Governor Williams was also a politician of probut exceedingly lenient and charitable to others, an his politics into the social circle, or introduced it i able form, or took advantage of his position to ad or gratify dislikes. No persons knew his views or h particular better or so well as those of the two leadities recently associated with him in a most delicate

position, where he could have exercised his authority in a most potent manner, but which he scorned to do, because it was a confiding trust of both parties—a trust that no man can be found so mean as to charge him with betraying.

His natural warmth of heart, and yet stern determination to deal conscientiouly between the State and individuals, was exemplified all through the Governor's term of office. The right to exercise the pardoning power upon application and petition was the great trial of his official life, and gave him tenfold more anguish and anxiety, as he said, than all the other responsibilities of that Department. But notwithstanding the ingenious and sometimes extraordinary pressure brought to bear upon his kind nature, he always weighed well the duties he owed the State when considering the appeals for mercy, which were almost overwhelming at times, and although yeilding perhaps in a few instances to false and delusive representations, accompanied by pledges and assurances of reform, which greatly grieved him, his record of pardons it is conceded will compare favorably with that of any of his predecessors.

He was a close observer of character, a good judge of men, and was seldom deceived. He liked to reward merit and was ever true to his friends; but he had no use for sham pretenders, nor "dead beats." of any kind. They were never seen loitering about him. His life may truly be said to have been one of untiring industry and stern activity, as well as one of economy and carefulness, which resulted in a well filled garner, but not at the cost of other men's toil or by any other dishonest means.

In James D. Williams's successful career we behold a prodigy. We see a plain, unassuming young man, a stranger without friends or money, standing on the bank of White river, the largest tributary of the far famed Wabash, with ax upon his shoulder in the midst of a boundless forest. We look again and see the forest melting away as if before fire; a little further along the tidal current and we see boundless fields of waving grain and "cattle" not "upon a thousand hills," but a thousand cattle are seen grazing upon his luxurious "Wheatland" pastures, to feed the starving millions in our own and other lands. We also see mills erected, river boats built, and pork houses constructed, without the aid or having trouble with competing architects, contractors or builders, as he was the artificer and boss workman himself. We see trade and commerce springing up with New Orleans the great southern mart of the Wabash valley, and we see the same ax-man, farmer, miller and boat-builder, now the captain and trader successfully coasting along the Mississippi to his destined port of entry and traffic. We follow him back to his forest home, where he becomes a politician, if he may be so considered, but he is a stranger to political trickery or the tions of demagogues, free from deceit and d step by step, quietly and unostentatiously, unt has reached the topmost round of the ladder of a a position that others have sighed for and vai by traveling over rugged paths and devious w sought, he reaches the pinnacle of fame, the cown loved Indiana. He lingers for a time after full number of years allotted to man, and wraps itude, love and charity about him, and quietly I final rest and sleep that knows no waking, ut whose beauty and fragrance will never fade or o

The successful career of this plain, industrious advantages of wealth, culture or prestige of f teaches a most valuable lesson to the young man jesson taught in no public school or college in the be allowed the cheering hope that in the rank ists of this State, many will be found in the futu ble and praiseworthy example.

REMARKS OF DR. R. T. BR(

I want to say that among the early patrons of its organization in the State of Indiana we are Governor James D. Williams. I knew him as a from the early days of the State Board of Agric into this work under very different auspices ft round us to-day. In the period of forty years ness, I can not say the profession, because it I character at all, but the business of agriculture the last one in the class of business. If a boy of sharpness and shrewdness and tact, they made if he was asking the reason of everything, he if a serious boy, and inclined to be pious, they pit; if he was an ingenious boy and skillful, the of him; but if good for nothing else they mad That was the condition of things, and I don't ex ture was of no reputation at all. It was made u were supposed to be good for nothing else.

Now that a man of the native common sens hams—for whatever you may say of him he i good common sense—that a man of his ability to the plow and maintain it even after the co kim by position in the councils of the State and nation, was greatly to his credit. He would sit in the Senate in the winter time and return to the plow in the spring. When the effort was made in the days of Governor Wright to organize agriculture as an organization in Indiana, he was among the early men that stepped out in the ranks. I sympathize with him because I know how it was myself. I have been there. I know the laugh and sneer of farmers themselves when you talked of making farming a science. We had a great mass of ignorance before us at that time, and we were attacking that ignorance. In every army there must be a picket line when it is moving in an unknown direction, but ahead of that picket line goes a corps of miners and sappers. They look out the road and indicate the route of march, but are never known when it comes to bestowing honors. Theirs is a position of labor and danger. Governor Williams belonged to the line of miners and sappers that went before the army. He stood at his post until the day of his death. He made agriculture his business and pride, and lived to see the time when it became an intelligent occupation; intelligent, because at the time that Governor Williams took hold of this matter of organizing it forty years ago, there was no such thing in this country as a book upon farming. I know I was over twentyfive years of age before I saw an agricultural newspaper or a book upon agriculture of any kind. It was not thought worth while to write anything about it; indeed, the first publication that got to our people at all, upon any branch of agriculture, went through the early volumes of the reports of this State Board of Agriculture. I got hold of Sir Humphrey Davy's Agricultural Chemistry forty years ago at Cincinnati, and thought it a great prize. country is full of agricultural books. What is known of farming is written now and can be known by anybody. That change came during the time that Governor Williams labored in this field. Among his highest honors was the honor he acquired by maintaining persistently his hold upon the early pursuits of the field and agriculture, and he didn't abandon it for congressional honors, or even after being elected chief executive of the State. He maintained it and gloried in it to the last of his days.

This demands from us, considering the period through which he passed, the highest tribute of our respect and regard, and I hope we have it in our hearts, all of us.

The following letter was received from Mr. ex-President of the Board:

HAMBICE'S STATION,]

Hon. ALEX. HERON: Dear Sir—Your friendly inv with the Board of Agriculture, on Tuesday morning ticipate in the memorial services of our late and dis President, James D. Williams, came to me a day or always glad to meet with your Board, and to greet of whom I have been associated and labored in the day and it will afford me on this occasion very great plea be in my power to comply with your friendly reshealth for the last few weeks has not been good, and in my power to be with you and participate in the evening, but I am glad to learn that the Hon. A. C. Dr. R. T. Brown are to be with you. The ripe expeknowledged ability of these old members will doub a rich treat.

I am one that has always had a very high regard Board of Agriculture, and especially its working me departed brother was eminently one of these. The can hardly realize the loss when one of those men active lives and untiring energies have been spent of the people, and I very much fear our people, and business portion of our people, never have and perl realize the great advantages resulting from the Box ture. In looking back over the history of Indian twenty years, we see her with her great storehol sources lying dormant, unknown, underdeped, unack rich and inexhaustible mines of coal and iron and and timber, their very existence denied, and our p on in the even tenor of their way, without much detion. A feeble effort had been made to develop t sources, but for want of proper control and direction failed. But still a few men of the State Board of A steady in the belief that these great resources in unliexisted in our midst. These men, unwilling to reline made an appeal to our Legislature to undertake th I happened to be a member of both at that time, ar member the effort to induce that body to undertake energy and perseverance finally prevailed, and a l giving the whole work into the hands of the State culture, and appropriating the money to commenc shall never forget the hesitancy and responsibility fe

at that stage of proceedings. An effort had once before been made and failed, and knowing that to fail now would be final, it became important that no mistakes should be made in the beginning. (And here let me acknowledge the obligation some of us were under to-Dr. R. T. Brown, for valuable suggestions in regard to the proper mode of proceeding at our very beginning.) But with no desire on the part of the Board to shirk the responsibility, they proceeded at once with the work. First, a Geological Department had to be organized, with an office and all necessary apparatus; then a Geologist had to be appointed; all of which was soon provided for, and the work was immediately commenced; and you remember, doubtless, the effort it required to induce men of experience, skill and capital to visit our State and examine our resources. But the right men from abroad came, saw, tested, experimented, and were convinced, and invested, and thus a successful beginning was made,. and a business and general prosperity began that is still extending its arms and its blessings throughout all our broad land, furnishing employment and scattering its blessings upon thousands of our fellow citizens.

In comparison, let us look at Indiana as she stands to-day, with her furnaces, her forges, her foundries, her machine shops and her factories, some of them not excelled in their line in the world, and all the industries of the State actively employed, furnishing the needed supplies for the increasing demand of the public. From my own door, on the Vandalia, I can view more than thirty trains each day passing, most of them loaded with coal to furnish motive power to our numerous factories, and the factories of neighboring States. To all this I claim that this present and unparalleled success is mainly due to the labor and work of the State Board of Agriculture. But while the Board has been actively engaged developing her mineral resources, it has not failed to afford every necessary aid and encouragement to the great agricultural and mechanical interest of the people. The improvement and cultivation of the soil; the introduction of the best grains, seeds, fruits and plants; the improvement and distribution of the best and most useful farm implements, with the necessary aid and encouragement for the importation and improvement of the best stock to be found-all these in their multiplied forms have been furnished with all the aid and encouragement in the power of the Board, so that their Annual Fairs have equaled, if not excelled, the Fairs of any State in the west. It is not surprising, therefore, that the Board, in the multitude of its work, and in its great anxiety to lend a helping hand to the industry and enterprise of the people, has gone too far and finds itself embarrassed with an incumbrance that may interfere with its useness in the future. In that case it is certainly per that the legislature should promptly furnis bound necessary, and it seems to me that if you we tee of two or three competent men, they certain at necessary aid may be needed.

nd now, Mr. Secretary, in conclusion, allow I wing from experience how much the success of da upon an efficient and faithful Secretary, allow e you upon your eminent success in serving y scially during the year when so much was to be fondly hope that your future connection with a useful and as pleasant as it has been in the party my sincere thanks for the many tokens of respongiven me, I subscribe myself,

Very sincerely yours, A.

Prof. C. S. Ingersoll, of Purdue Universityell prepared address on "Forestry," we red with thanks, and brought out consider.*

In motion, adjourned until 9 o'clock A. M.

SECOND DAY.

MORNING SESSION.

WEDNESDAY, JANUARY

The Board met pursuant to adjournment, I in the chair.

Present, Messrs. Mitchell, Haynes, Handick, Mutz, Seybold, Ragan, Barns, Sample chart, and about two-thirds of the delegathe minutes of yesterday's proceedings voroved.

The President declared that motions were

The address, with remarks, will be found elsewhere in this repeaty matter.

Mr. Hopping. The proceedings of the Board yesterday, according to the News, was unwarrantable in respect to the delegate from Dearborn county. The Board took the liberty to appoint a delegate from Dearborn county who is not even a member of the Board of Dearborn county, and the society has not been reported to the State Board of Indiana. I therefore make the motion that that part of the proceedings be expunged from the record of proceedings.

Mr. Sunman. I would like to say that the society is a new organization, and did not understand about sending in their report. At the time I asked the Board's permission to admit Mr. Murdock, he informed me that he was a director of that organization. I also said that if it was necessary to have a telegraphic order authorizing him to act, that he would get that order, but the Delegate Board saw proper not to request that, and admitted him to membership. You accepted him as a member yesterday, and I see no reason why he should be rejected to-day.

On motion of Mr. Gilbert, the motion was laid on the table.

Mr. Mitchell from the Finance Committee reported as follows, which was accepted:

To the State and Delegate Board of Agriculture:

We, the Committee on Finance, beg leave to make the following report: That we have examined the books and accounts of the Secretary and Treasurer, and find them correct.

ROBERT MITCHELL, JOHN N. TURNER, JASPER DAVIDSON, JOHN RATLIFF,

Committee.

Mr. Mutz reported from the Committee on Rules and Regulations as follows:

That the price of admission be as follows: Single admission, 50 cents; children under twelve years, 25 cents; horse and rider, 75 cents; one-horse vehicle and driver, 75 cents; two-horse vehicle and driver, \$1.00. We also recommend the charge of 25 cents to

be made for badges for admission to the space heater. We concur in the recommendations or regard to beginning the Fair the middle of the on Friday of the week following.

> JACOR JOS. G C. B. J DEMPS

It was moved that the report of the Coand Regulations be concurred in, which the following discussion:

Dr. Stevenson. The recommendation put the admission fee at fifty cents. I prise to raise the premiums and increase Society. The question for the Board whether or not we would make more mothe fee. I have my doubts as to whether or less money to increase the fee.

Mr. Mutz. As a member of the comn the reasons why we made the increase in mission. Indiana stands second to no o Union as far as her agricultural resource she stands second to none in the way o arts; she stands second to none as a stock-r stand second to no State for giving the p attending, and we have spared no pains it itors to the State Fair comfortable, and ye abroad, there is no State Fair in the I what charges fifty cents admission. agricultural resources and what is she? efits that result from the exhibitions madcompare them with the prices that p towards sustaining the State Fair of In the other States, and see what their Legis. in regard to building up the agricultural States. I think we have abundant reason

mission fee. We are in debt now. I think the people of Indiana are prepared for an increase in the price of admission, when they look abroad and see the prices in all the other States.

Mr. Seward. Mr. President, I am very glad that you, in your annual address, recommended this change. I have been an advocate of this increase of price for the past six years. When you hear the reports of the various departments, it is with one accord that they ask for an increase in the premiums in their departments. I must acknowledge, as a member of this Board, that I am ashamed of the pitiful premiums that we offer. We know by past experience about how many people we can depend on who attend our fairs, and we also know what the average expense is for conducting this fair, and every member of this Board, who has investigated this matter, knows that we can not increase our premiums at the present rate of admission. Let us fix our rate of admission at such a figure that we will be able to increase our premiums and yet not lose money.

Mr. Custer. I indorse all that has been said in respect to raising the price of admission. I simply wish to show a comparison in the fruit division of the Horticulture department. Taking the fair previous to the last one, I wish to show the figures for Ohio, Michigan and Indiana. Ohio pays premiums to the amount of \$371, Michigan \$712, and Indiana \$173, Indiana not half as much as Ohio, and only about one fourth as much as Michigan. Indiana does not want to acknowledge that these other States are so much superior to ours in fruit growing.

Mr. McDonald. I am in favor of increasing the price of admission to the small sum of fifty cents.

Mr. Beeler. We should certainly raise the premium list. I do not know how to do it without increasing the fees. Having been connected with the Fair during the last year, I have given this matter considerable thought, and I believe that a half-way ground in the matter would be a good

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thing to adopt, that is, that you would Tuesday and Saturday twenty-five cent da day and Friday fifty cent days.

Mr. H. S. Byers. I concur fully with Ma Mr. Johnson. I differ with those gentlen making a difference in the price of admissi I think, if you make that the rule, the cent days there would be a very meager a judgment would be that the days shoul What you want is what the people think Our fairs are supported by two classes of pe come for the benefit of the State Fair, an want to support it, and another class that c curiosity; the two classes make up your atte the people throughout the country want, is t the Fair is managed economically or not. convinced, by any report you can make, th properly expended, they will not stand baol My judgement is, that you can remedy this ing arrangements with the railroads and ho rates; I think that it can be arranged so that will be saved to them. There is another iter may save money, and that is not admit too me let everybody that comes to the Fair pay ali is aware that the State Board is in debt, that we are trying to get out of debt. vinced that their money is being properly will not stand back for fifty cents.

Mr. Raltiff, of Grant, offered the follow which, on motion of Mr. Elliott, was mad for the afternoon, immediately after the elec

Whereas, The grounds occupied by the State ture are mortgaged for the sum of sixty thousa mortgage is now due; and,

WHEREAS, The State Board is wholly unable gage and,

WHEREAS, The State Fair is for the benefit of the people of the State, and not for the benefit of any corporation or individual; therefore,

Resolved, By this delegate meeting that the State Board proper be instructed to appoint a committee of three from their number, to properly present this matter to the Legislature, and ask for such relief as our very needly circumstances require.

Adopted.

Mr. Ratliff. I understand that this debt was incurred when the exposition was run in connection with the State Fair, and that you are wholly unable to pay it. I understand also that the State has already some twenty-five or thirty thousand dollars invested there, secured by a second mortgage, and that there is a prior lien on the property. I think it is nothing more than right that the Legislature be urged to take hold of the matter and put it in some shape so that it may be kept out of the hands of the persons holding the first mortgage.

Mr. Seward. This is a matter of too much importance to be passed very hastily. I would like to have a free expression from the delegates. I undertake to say that the State Fair is for the good and benefit of the individuals of the State of Indiana. As we are an agricultural State, and depend on agriculture largely for our wealth, I think it ought to be the duty of every delegate to make it his business to see the representative from his section and urge upon him the necessity of some action of the Legislature to relieve us from our embarrassment. It is impossible for the State Board of Agriculture to extricate itself from the debt hanging over it without some outside assistance of some It is the duty of the State to buy that ground and hold it as a place for the people of Indiana to hold their State Fairs. There are some people who can not get out of their minds the idea that this State Board of Agriculture is an individual affair, and that whatever may be the measure of our success, is, in some measure, a pecuniary benefit to us. We are working here for the good of the whole State, and I have always advocated the State Board of Agriculture should t reaus of the State government. We can the work that has been done by the State I ture. Let every delegate here who is i taining the State Board of Agriculture g tative from his section and urge upon his action in this matter.

Mr. Quick reported from Committee or follows, which was accepted:

Your Committee on Fair Grounds beg leave to the loose property of the Board carefully ho from loss or damage. The roof on the central building needs repairs, and also the roof on the east corner should be repaired, in order to prote articles on exhibition. We would also recommentate horse, cattle, sheep and hog stalls, by rentiheretofore, and re-roofing the same during the

Also, recommend the fencing of all those grouning to the Board.

Respectfully submitted,

S. R. Q John F L. B. C John I Albert

Report of the Committee on Credentia cepted:

Mr. President, State and Delegate Board:

We, having examined the list of the delegates beg leave to report that we find them correct, no contested cases brought before us.

8. R. Q

D. F. V

Jos. Gn

Report of the Committee on Co-operation:

Mr. President: Your Committee to whom was referred the suggestions as to forming an association, for the mutual co-operation of the Boards of Agriculture of the different States in the west, would respectfully report.

That such an organization is advisable, and recommend that the officers of this Board be authorized to represent the Indiana Board of Agriculture in the perfection of such an organization.

ALEX. HERON,

JACOB MUTZ,

JOHN McDonald,

Committee.

Chairman Lockhart, from the committee to consider the suggestions from the Woman's Department, reported as follows:

To the President and Members of the Delegate Board:

Your committee, to whom was referred the report of the Woman's Industrial Association, has had the same under consideration, and beg leave to make the following recommendations for your consideration:

We recognize the work of the Woman's Association as a great auxiliary to the work of the State Board of Agriculture in making our annual State Fair attractive. We believe them to be fully competent to manage their department.

We would therefore recommend that the sum of twelve hundred dollars be appropriated by the State Board, for the purpose of paying premiums and expenses of the Woman's Department, and that they be allowed to disburse all money used in their department, except the payment of premiums.

We further recommend that the said association be allowed full control of the space allotted to them, including the right to sell space for the sale of refreshments, and for the sale of goods on display in their department.

Respectfully submitted.

R. M. Lockhart, D. F. Willey, N. R. Elliott, Jos. Gilbert,

Committee.

8—AGR. REPORT

It was moved that the report of the Co Woman's Industrial Association' be referr roper for its action.

Mr. Lockhart. I consider that justice the are aiding us in this work demands at action. The report from the ladies was verne State Board appropriated one thousand ase, which they managed very advantageous at two hundred dollars additional be apprairs, etc. I think it would be very discourte y without any action. What the ladies of any do this work and wait upon us for their ught to put this in shape so that they cannot in their own way.

Mr. Johnson, of Marion. I understand simply one asking the opinion of this Del the appropriation of this money; that this as no power to appropriate money or anyongs solely and entirely to the State Board eing the case, this is only a recommendate at the State Board shall make this appropriate dollars for the ladies' department.

Dr. Brown. I move to amend the pend oving that the report be referred to the Stat ith the advice that its recommendations be Motion as amended adopted.

By request, the business programme was a On motion of Mr. Johnson, Prof. Moss, I tate University at Bloomington, being press the stand to deliver an address on "Education and the afternoon."

Mr. Elliott offered the following resolut. lopted:

^{*} Prof. Moss's address was delivered orally, but will be found rt, under the head of easey matter.

Resolved, That the thanks of the Delegate and State Board of Agriculture be tendered Prof. Moss for his able and instructive lecture on "Educated Industry."

Dr. Brown followed, with a few remarks on the same subject.

The President read a communication from the Illinois Dairymen's Association, in convention at Elgin, Illinois, as follows:

ELGIN, ILLINOIS, JANUARY 3, 1881.

To the President of the Delegate State Board of Indiana:

DEAR SIR:—In the Country Gentleman of the 30th ult., I notice that you are to have a meeting at Indianapolis to-morrow, and although no programme of your proceedings is published with the notice, I presume your meeting is for the consideration of the interests of the agricultural industry.

Will you allow me to call your attention to the injury that is being done to those interests by the counterfeiting of the products of the soil, in the adulteration of human food.

I do not desire to elaborate this, as I presume the delegates to your convention are already sufficiently familiar with the subject to take intelligent action in regard to it.

What I desire to do is to call your attention to the action of the "Illinois State Dairymen's Association" at their annual meeting, and that of the Elgin Board of Trade, as will appear from the inclosed resolutions.

I also inclose a copy of resolutions that will be presented to-day to the "Board of Supervisors" of Kane county, Illinois, which will, doubtless, be adopted.

"The Fox River Valley Medical Association," which meets today, will also take action on the subject of adulteration of food and drugs designed for human use, claiming, as some of the ablest of them do, that the use of adulterated food and drugs is that one great cause of the "insanity" and other nervous diseases now so alarmingly on the increase in all our communities.

The object of the effort now being put forth is to secure the cooperation of all industries, the producers and consumers, and all representative bodies, in order to suppress this evil of food adulteration.

Will you have this matter brought before your convention, and take such action as in your judgment will best secure the accomplishment of this object.

Very respectfully your obedient servant, G. P. Lord, Chairman of Legislative Com. of Ill. State Dairymen's Association.

Copy of resolutions that will be adopted by the visors of Kane County, Illinois:

WHEREAS, The adulteration of human food is a the products of the soil, and therefore injures the as

WHEREAS, The adulteration of food, instead of tracts from, the intrinsic and nutritive value of all ration, and therefore defrauds the consumer; and,

WHEREAS, The introduction into the human quantities of innutritious and indigestible ingred culated to derange the digestive organs and unde physical system, thus rendering those using a proper subjects for medical treatment; and,

WHEREAS, It is asserted by those engaged in medicine that the drugs are frequently so adulter of proving beneficial they are liable to be injurio system of those to whom they are administered; a

WHEREAS, The use of adulterated food and adustated by medical men who have given attention be one cause of the insanity and many nervous alarmingly on the increase in all our communities

Resolved, By the Board of Supervisors of Kane that the manufacture and sale of adulterated for signed for human use, is not only a fraud, but a c be suppressed by legal enactment.

Rescited, That the interest of the tax-payers—will to support the pauperism and charitable institution demand that the evils resulting from the adulters drugs, designed for human use, should be supprefore,

Rescived, That it is the duty of our Legislators t as will effectually protect the people against the fr also against the physical evils resulting from the adulterated food and drugs designed for human u

Rescived, That a copy of these resolutions be President of the United States; to the Senators for the member of Congress from this District, also t this State, to the Senator and each one of the mem ture from this District, and to the Chairman of the visors of each county in this State, with the reqoperate with us in our efforts to suppress this evil

GENEVA, ILL., January 3, 1881.

Mr. Woods. I think this a very important subject and it calls for action from this State and Delegate Board. I consider it of so much importance, that I move that this communication, with the accompanying resolutions, be referred to a committee of three that shall report to this body this afternoon.

Which motion was carried.

Committee appointed by chair consisted of Messrs. Turner, Woods, McDonald and Hargrove.

Upon motion, recess was taken until 1:30 P. M.

AFTERNOON SESSION.

HALF-PAST ONE O'CLOCK.

The Convention met, President Ragan in the chair.

First in order, according to programme, was the election of members of the Board to fill vacancies of the retiring members.

Motion of Mr. Seward carried, that the chair appoint two tellers to count the vote. Messrs. Seward and Davidson, of Gibson, were so appointed.

Motion of Mr. Lockhart carried, that D. B. Canady, of Rush, be permitted to cast vote for Cambridge City District Society.

Motion of Mr. Seward carried, that Mr. Alderson, of Plainfield, be permitted to cast the vote for the Plainfield Agricultural and Horticultural Society.

Motion of Mr. Johnson, of Marion, carried, that Mr. Heinl, of Terre Haute, be permitted to cast vote for the Terre Haute Horticultural Society.

The following were elected members:

Fifth District—Mr. T. W. W. Sunman, of Ripley.
Sixth District—Mr. S. R. Quick, of Bartholomew.
Eighth District—Mr. Joseph Gilbert, of Vigo.
Ninth District—Mr. W. H. Ragan, of Hendricks.
Tenth District—Mr. H. C. Meredith, of Wayne.
Eleventh District—Mr. J. P. Barns, of Madison.
Twelfth District—Mr. J. K. O'Neal, of Tippecanoe.
Thirteenth District—Capt. T. M. Kirkpatrick, of Howard.

Mr. Mitchell, of Gibson, delivered an add it important to have experts as Committees Stock at our Fairs?" which was well receiv lished elswhere in this report.

Motion of Mr. Mutz carried, that the sul to the Board proper, to be considered at the

The special order of the morning was the ferring to sale of the fair ground propert and some lengthy and interesting discussi Mesers. Mutz, F. A. W. Davis, Murdock, I Crim, Wildman and Ratliff.

Mr. Mutz. I am astonished that an enlipeople who have followed the profession long, should be backward about expressin, regard to the duty of the Legislature upon tion, when we consider that Indiana is, stric agricultural State. She is second to no State as an agricultural State, and yet the Legislat State of Indiana stands back and doubts as should take care of their own property. grounds are as much the property of the State the grounds upon which you are building the Let us take hold of this matter and urge it islature. I do not believe the people of I ing to give away this property.

Mr. F. A. W. Davis. I do not believe to into any discussion in regard to your resonseem to be to the point. I believe that the which they are set forth can be easily accompathis afternoon to talk in a business way about first as trustee, for the State, of the second will be my duty at this session of the Legis, the condition of this Board in regard to the shall set forth the facts that there are sixty the of these bonds due, and it is in my mind necessary for the State to take some imme

protect the trust that I have and I believe they will do it. I believe it will be the duty of the Legislature to take up these bonds. Some time ago I could have negotiated part of the bonds at eighty cents on the dollar, but times have changed and such securities are held higher than at that time. I have had, in the last few days, telegrams from Baltimore, urging me to see what could be done, and wanting to know if it was going to be paid. I believe the State ought to take up these bonds and let you have the money at four per cent. I may say that I have been the banker for the Association for seventeen years, and I believe that you are able to pay four per cent. If the State, at any time, wants to recover the money it can do so out of this property. I regard the property as very valuable and steadily increasing in value. I thought I would call the attention of the Legislature to the fact that the twenty-five thousand dollars was in imminent dauger of being swept away. I think the Legislature ought to authorize me to permit you to issue a new bond and get the money at six per cent., if you have to carry it—that is, if you desire to retain the property.

Mr. Mutz, to Mr. Davis. Have you had any conversation with the attorneys in regard to the State taking it up and letting them have it at four per cent?

Mr. Davis. I have not consulted any of the attorneys, but it seems to me that the State could take from their treasury and advance to you upon these bonds and hold them for you. There is another matter that I would like to call the attention of the Board to. There are outstanding some obligations of this Board as guarantee bonds that could have been adjusted a long time ago at less than their value, and should be attended to at your earliest opportunity.

Mr. Murdock. I am glad to hear this matter brought up, but the idea of our going to the members of the Legislature and asking or begging that they should discharge this debt, or take charge of it in some way, so as to relieve

this Board from this indebtedness, seems to feetly ridiculous I say it is ridiculous for t of Indiana to stand with a little debt of a dollars hanging over an institution of this comes our duty, as members or visitors to th our return home, to immediately bring this attention of the citizens of the different cou. let us come to the Legislature and not ask by this debt be discharged. It seems to me : the great agricultural interest should go be vants that are sent to look after our inter suggest, in connection with the resolution offered, that there not only be a committee that each member from each county represer ing Board bring the matter before their and let the demand come up from every members elect that they shall demand that settled at once.

Mr. Hendry. Some two years ago a ques this one was discussed. The question is wh shall make an appropriation to pay off this i I think that the State is under as much relieve the State Board of Agriculture fi property as it is to other institutions. Agriculture is a State institution. thereabouts, the State University at Blooming decision of the courts, had been deprived of of land that had been granted to the institu application of the Board having charge of at Bloomington, the State issued its bonds by bly, six per cent interest and covered the en University. It was predicated upon this fac fulness of that University must not be destre it be true in this case that this institution is tion, I apprehend that the plain duty of the this, not only to provide for the payment of ut to provide for the payment of this debt.

Mr. Wood. According to my understanding the State Board of Agriculture is a State institution, and it seems to me that it must come under the protection of the State. As I understand it, the law governs and runs this Board of Agriculture. Supposing that the State should let this land be sold, what would be our position before the world? That the great State of Indiana can not retain thirty-nine acres for a public common to hold her State fair. The people of the old world demanded a piece of ground as a public common, free forever, and that practice followed the emigrants to this new world. Looking at the question in the light of an educational institution, the State Agricultural Society is as much an educator as the State University, I hold.

There is another view of it. I consider that the State is under the most solemn obligation to take care of her own. It would be a burning disgrace to the State to have it said that Baltimore had foreclosed on Indiana and taken her thirty-nine acres.

The labor of the State of Indiana makes its wealth, and the idea that we can not ask Indiana to own as a public park or common, forever dedicated to labor, and the industry of the State, is simply ridiculous.

Mr. Crim. The bonds have matured and we have got to do something to satisfy those bondsmen. The time has arrived for action. The question before the board is what is the best plan to pursue? My opinion is that we should go before the Legislature and convince them that this is a State institution and that they must protect the State's property. It is really a matter of dollars and cents with our Legislature. Can they afford to lose the thirty thousand dollars that they have already appropriated by not paying the sixty thousand dollars? If the junior mortgagor does not buy it in and protect it, it is a dead loss to the State of Indiana. It is not only to protect that interest, but they owe a debt to the great agricultural interest of the State. I think now is the time to act by appointing a

BOARD OF AGRICULTURE.

committee to go to the Legislature. It is for of the State to protect this property. It is a ess transaction to me.

lution of Mr. Ratcliff was re-read, put upon its | carried ananimously.

ard read the following resolution, which was

hat each delegate to the annual meeting of the State riculture is hereby requested, personally or by letter, the legislators from their respective counties, the neompt action on their part in assisting the State Board re from the burden of debt now hanging over them, rounds now held and used by the Board for fair purot be lost by reason of the foreclosure of the mortgage ue.

mittee report, on the communication from Elgin, s read and accepted, as follows:

nd Delegate Board of Agriculture:

mmittee to whom the papers and resolutions of the Dairymen's Association, on the adulteration of food, beg leave to recommend the adoption of the same by with the proper alterations of the dates, etc., and that a of three, consisting of the President, Secretary and appointed, to present the matter before the Legislathe coming session, for their consideration and adop-

JOHN N. TURNER, BARTLETT WOODS, SAMUEL HARGROVE.

Committee.

ed till 7:30 p. m.

EVENING SESSION.

HALF-PAST SEVEN O'CLOCK.

rd met at the appointed time.

t Ragan announced the serious illness of Mr., a member of the Board.

President E. E. White, of Purdue University, was then introduced, and delivered an address on "Technical Training in American Schools."

A vote of thanks was tendered President White for his able address, and the same requested for publication.

Dr. George L. Curtiss was introduced, and delivered an address on "Ponds and Pond Water," with reference to health and wealth.

Upon motion, a vote of thanks was tendered Dr. Curtiss for his very interesting and entertaining address, and the same requested for publication.*

Mr. Farley, Secretary of the Tri-State Fair, of Toledo, Ohio, was introduced and made a short address, explaining some of the advantages of organizing a fair circuit, as follows:

"Last summer there was a conflict in the time of holding some of our large fairs. I said to some of the members of our Board that it would be a good thing to have what we might call a fair congress to arrange a circuit fair for 1881, and they coincided with me. I went to Cleveland and talked with members of the Northern Ohio Fair, and to the Ohio State Fair and talked with the members there, and they all thought it would be a good thing, and corresponded with members of the Michigan State Board, and we agreed to have a meeting of the representatives of the different fairs at Toledo, on the 28th of December. All of those organizations reported, sending delegates to the meeting. In order that there should be no conflict in the holding of the fairs, it was decided, if possible, that we should commence with the Ohio State Fair for 1881, commencing on the 28th of August for the beginning of the circuit, the Northern Ohio on the 5th day of September, the Tri-State Fair at Toledo on the 12th of September, and the Michigan State Fair on the 19th day of September.

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by

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^{*} Will be found elsewhere under head of Essay Matter.

talking over this matter we thought if the I Fair would join in this circuit, we would like v have it. We find that the Indiana State Fair v directly after the close of our circuit. If a cirkind was formed, we might help each other in t advertising and the procuring of cheaper trand it would be well for the large exhibits from one fair to another."

Mr. Lockhart made a few remarks on the s Upon motion, the Delegate Board adjourned

IANA STATE FAIR.

PREMIUM AWARDS, 1880.

HORSES.

_		_	_	_
Ç,	MEREDITH,	Su	perinten	ident.

CLASS I .- Theroughbreds.

tate is not given in address, Indiana is implied]

ld and over, James Blanchfill, Oxford, Ben- y, am, David Kilgore, Yorktown, Delaware Co., d and under 4, Joseph Lewark, Indianapolis,	\$35 17
unty, s Maloy, Rensselaer, Jasper county, um, M. L. Hare, Indianapolis,	25 20 10
-J. Rodegap, Washington C. H., Ohio; niana, Ky.; C. B. Jackson, Centerville, L	
CLASS II.—General Purpose.	
d and over, Riddell & Norris, Hebron, Boone Kentucky,	\$3 5

Stallion, 3 years old and under 4, Cheever Hill
Boone county,
Second premium, John Marvel, Royalton,
Stallion, 2 years old and under 3, W. S. Hadley, (
rion county,
Second premium, D. L. Thomas, Rushville, 1
Stallion, 1 year old and under 2, E. F. Claypool, 1
Second premium, J. F. Miller, Bichmond, .
Stallion, sucking colt, A. M. Huff, Oakland, Maric
Second premium, D. L. Thomas, Rushville, F
Mare, 4 years old and over (colt by her side), A.
land, Marion county,
Second premium, G. M. Spencer, Portland M
Mare, 3 years old and under 4, W. T. Scott, Portle
Second premium, E. F. Claypool, Indianapol
Mare, 2 years old and under 8, William Meikle, I
Second premium, Riddell & Norris, Hebron, I
Mare, 1 year old and under 2, C. T. Allen, Glenn
Second premium, F. Sharpe, Indianapolis,
Sucking filly, G. M. Spencer, Portland Mills, .
-
Second premium, A. M. Huff, Oakland, Mario
Mare, 4 years old and over, regardless of havin
Mann Bros., Southport, Marion county,
Second premium, Allen Jackson, Plainfield,
Gelding, 4 years old and over, J. I. Keeney, Dany
Second premium, Ira C. Williams, Lewisville
Gelding, 3 years old and under 4, Leland Tanse
Boone county,
Second premium, C. F. Mapes, Indianapolis,
Gelding, 2 years old and under 3, Mann Bros., Sout
county,
Matches, geldings or mares, George D. Emery, In-
Second premium, J. P. Beck, Thorntown, .
COMMITTEE—C. B Jackson, Centerville
derson, Lafayette; G. W. Kenran, Terre H
AR 480 PPC PL 1. PP
CLASS III.—Light Harness.
Stallion, 4 years old and over, J. P. Fairley, Ru
county,
Second premium, J. W. Wren, German &
Boone county, Ky,

Stallion, 3 years old and under 4, John S. Fleming, Indianapo-	
A: 3.5	\$25
Second premium, Riddell & Norris, Hebron, Boone county,	
Kentucky,	12
Stallion, 2 years old and under 3, Mann Bros., Southport, Marion	
county,	14
Second premium, Charley Schmidt, Indianapolis,	7
Mare, 4 years old and over (colt by her side), M. L. Hare, In-	
dianapolis,	14
Second premium, D. L. Thomas, Rushville, Rush county,	7
Mare, 3 years old and under 4, E. F. Claypool, Indianapolis, .	14
Second premium, A. A. Russell, Indianapolis,	7
Mare, 2 years old and under 3, R. T. German, Florence,	7
Second premium, J. C. Rowley, Columbus,	3
Mare, 4 years old and over, regardless of having been bred, Ira	
C. Williams, Lewisville,	17
Second premium, E. F. Claypool, Indianapolis,	7
Gelding, 4 years old and over, S. Armstrong, Rushville, Rush	
county,	14
Second premium, E. F. Claypool, Indianapolis,	7
Gelding, 2 years old and under 3, D. L. Thomas, Rushville, Rush	
county,	7 .
COMMITTEE—J. Rodegap, Washington C. H., Ohn Nelson Johnson, Washington, Indiana; Geo. W. Kenra Terre Haute, Indiana.	•
CLASS IV.—Heavy Draft.	
Stallion, 4 years old and over, Cal. Bates, Falmouth, Fayette	
•	\$35 ∙
Second premium, Wm. Meikle, Pendleton,	17
Stallion, 3 years old and under 4, Wm. Meikle, Pendleton, .	28
Second premium, Mann Bros., Southport, Marion county, .	14
Stallion, 2 years old and under 3, Wm. Meikle, Pendleton, .	14
Second premium, Cal. Bates, Falmouth, Fayette county, .	7
Stallion, 1 year old and under 2, Cal. Bates, Falmouth, Fayette	
county,	7
Second premium, Robert Bogue, Fairmont, Grant county,	8
Stallion, sucking colt, Robert Bogue, Fairmont, Grant county,	6
Mare, 4 years old and over (colt by her side), Robert Bogue,	
Fairmont. Grant county.	20.

Mare, 3 years old and under 4, Cal. Bates, Falme county,
Second premium, Robert Bogue, Fairmont, G
Mare, 2 years old and under 3, Wm. Meikle, Pendl
Second premium, Cal. Bates, Falmouth, Fayet
Mare, 4 years old and over, regardless of having be
Bates, Falmouth, Fayette county,
Second premium, Robert Bogue, Fairmont, G
Gelding, 4 years old and over, John Bates, Indians
Second premium, Leland Tansell, Zionsville, I

COMMITTEE—John W. Wilson, Shelbyvil Arthur, Portland, Ind.; Nelson Johnson, W

Heavy draft team, Wm. Meikle, Pendleton, .

CLASS V .- Trotting, Pucing and Runnin

TUESDAY, SEPTE

RUNNERS - 4 years old and over.

James Maloy, Rensselaer, "Classmate,"
Second premium, B. Kelley, Champaign, Illin paign Billet,"
Third premium, James Blanchfill, Oxford county, "Gloster,"

STALLION TROT.

M. F. McCaffey, Stilesville, Hendricks county, "Ca-Second premium, Rue & Cecil, Danville, Ky., "Third premium, W. Beymer, Indianapolis, "V Money to be divided equally.

Committee—O. P. Chaney, C. B. Ja Woodmansee.

WEDNESDAY, S

RUNNERS-Under 4 years of age.

Joe Lewark, Indianapolis, "Recorder," . . . Second premium, G. L. Gilkey, Waldron, "Tru Third premium, David Kilgore, Yorktown, "C

COMMITTEE-John Rodegap, E. Combs,

GREEN PACE.

2,
Tom Levi, Noblesville, "Bay Tom,"
COMMITTEE—John Rodegap, E. Combs, C. B. Jackson.
THURSDAY, SEPTEMBER 80, 1880.
TROTTERS—That have never beaten 2:40.
W. H. Wishard, Indianapolis, "Polly Wishard," \$150 Second premium, M. F. McCaffey, Stilesville, "Snooks," 100 Third premium, Thomas Dickson, Greensburg, "Big John," 50
TROTTERS—Under 5 years of age.
8. Armstrong, Rushville, "Little John,"
COMMITTEE—John Rodegap, R. Watt, C. B. Jackson.
FRIDAY, OCTOBER 1, 1880.
PACERS.—Entries confined to horses owned in this State.
Benjamin Davis, Indianapolis, "Hoosier Sam,"
Runners—Consolation Purse.
James Blanchfill, Oxford, Benton county, "Gloster,"
Committee—John Rodegap, A. W. Powell, New Cas-
tle, C. B. Jackson.
FREE FOR ALL TROT.
SATURDAY, OCTOBER 2, 1880.
John Lackey, Cambridge City, "Kitty Bates," \$250 Second premium, Backen & Wyatt, Greensburg, "Big John,"
Third premium, Wm. Boyce, Indianapolis, "Jerome," . 100
COMMITTEE—Allen Jackson; A. W. Powell, New Castle.
9—AGR. REPORT.

RUNNERS, FREE FOR ALL—Half mile and repeat.
James Maloy, Rensselaer, "Classmate,"
"Molly Brock,"
COMMITTEE—Allen Jackson; A. W. Powell, New Castle.
CLASS VI.—Saddle Horses.
Saddle horses, gelding or mare, any age, H. McCoy, Indianapolis,
COMMITTEE—John Rodegap, Washington C. H., Ohio; George W. Krenson, Terre Haute, Indiana; Nelson Johnson, Washington, Indiana.
CLASS VII.—Sweepstakes on Horses.
Heavy draft stallion, Wm. Meikle, Pendleton,
Herd of six, consisting of 1 stallion and 5 mares, except heavy draft, owned by exhibitor, M. L. Hare, Indianapolis, . 40 Herd of six, heavy draft, consisting of 1 stallion and 5 mares, owned by one exhibitor, Cal. Bates, Falmouth, Fayette county,
COMMITTEE—G. W. King, Edinburg; Samuel Dinsmore, Bloomington; A. W. Powell, New Castle.
CLASS VIII.—Jacks Jennets and Mules.
Jack, 3 years old and over, James D. Smith, Fennis, Shelby co., \$20 Second premium, C. W. Neal, Brownsburg,

PREMIUM AWARDS.	131
Jack, 2 years old and under 3, J. G. Sweeney, Greencastle, .	\$ 15
Jack, 1 year old and under 2, C. W. Neal, Brownsburg, .	. 10
Second premium, G. W. Lancaster, Indianapolis,	5
Jennet, 3 years old and over, J. G. Sweeney, Greencastle, .	. 10
Second premium, G. W. Lancaster, Indianapolis,	8
Mule, 8 years old and under 4, Leland Tansell, Zionsville) ,
Boone county,	. 12
Second premium, J. G. Sweeney, Greencastle,	6
Mule, 1 year old and under 2, Leland Tansell, Zionsville, .	. 8
Second premium, Leland Tansell, Zionsville,	5
Mule colt, John J. Hessong, Indianapolis,	
Second premium, D. D. Boyd, McCordsville, Hancock co.,	8
Pair mules, 3 years old and over, Wm. H. Cox, Bridgeport,	2 0
COMMITTEE—John W. Wilson, Shelbyville, Indi John P. Anderson, Lafayette; Will. T. Anderson, county.	•
CLASS IX.—Sweepstakes on Jacks and Jennets.	
Jack, any age, J. G. Sweeney, Greencastle,	\$20 10 20
COMMITTEE—W. W. Yeats, Bainbridge; Nelson Json, Washington; Will T. Anderson, Brazil.	ohn-
CATTLE.	
ROBT. MITCHELL, Superintendent.	
CLASS X-Short Horns.	
Bull, 4 years old and over, David Selsor, London, Madison county, Ohio,	\$ 50
Second premium, J. Baugh & Son, Farmer's Institute, Ind.,	25
Bull, 3 years old and under 4, Green Wilson, Waldron, Shelby county,	40
Bull, 2 years old and under 3, Thomas Wilhoit, Middletown,	~~
Henry county,	20
Second premium, E. Clore, Alamo, Montgomery county,	15
•	

0

Bull, 1 year old and under 2, Thomas Wilhoit, Middle
Henry county,
Second premium, Sam Pursel, N ra, Marion count
Bull calf, E. Clore, Alamo, Montgomery county, .
Second premium, Thomas Wilhoit, Middletown,
Cow, 4 years old and over, J. Baugh & Son, Farmer's Ins
Second premium, Thomas Wilhoit, Middletown,
Cow, 3 years old and under 4, David Selsor, London, Ma
county, Ohio,
Cow, 2 years old and under 8, Thomas Wilhoit, Middlete
Second premium, J. Baugh & Son, Farmer's Institu
Heifer, 1 year old and under 2, Thomas Wilhoit, Middle
Second premium, J. Baugh & Son, Farmer's Institu
Heifer calf, J. Baugh & Son, Farmer's Institute, .
Second premium, J. Baugh & Son, Farmer's Institu
Breeding cow with calf at foot, E. Clore, Alamo, Mon
county,
Second premium, David Selsor, London, Madison
Ohio,
,
COMMITTEE - James W. Kav. Fredricksh
COMMITTEE - James W. Kay, Fredricksh Warran Mason Wabash Ind : Joseph Cole
Warren Mason, Wabash, Ind; Joseph Cole,
Warren Mason, Wabash, Ind; Joseph Cole,
Warren Mason, Wabash, Ind; Joseph Cole, Ind. *CLASS XI.—Jerseys and Other Breeds.* Jersey buil, 8 years old and over, J. W. Myser, Butlery.
Warren Mason, Wabash, Ind; Joseph Cole, Ind. *CLASS XI.—Jerseys and Other Breeds.* Jersey buil, 8 years old and over, J. W. Myser, Butlery.
Warren Mason, Wabash, Ind; Joseph Cole, Ind. CLASS XI.—Jerseys and Other Breeds.
Warren Mason, Wabash, Ind; Joseph Cole, Ind. *CLASS XI.—Jerseys and Other Breeds.* Jersey bull, 3 years old and over, J. W. Myser, Butlervinings county,
Warren Mason, Wabash, Ind; Joseph Cole, Ind. *CLASS XI.—Jerseys and Other Breeds.* Jersey bull, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis,
Warren Mason, Wabash, Ind; Joseph Cole, Ind. *CLASS XI.—Jerseys and Other Breeds.* Jersey buil, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman
Warren Mason, Wabash, Ind; Joseph Cole, Ind. *CLASS XI.—Jerseys and Other Breeds.* Jersey bull, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman apolis,
Warren Mason, Wabash, Ind; Joseph Cole, Ind. CLASS XI.—Jerseys and Other Breeds. Jersey bull, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman apolis, Second premium, A. Garretson & Bros., Pendleto
Warren Mason, Wabash, Ind; Joseph Cole, Ind. CLASS XI.—Jerseys and Other Breeds. Jersey bull, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman apolis, Second premium, A. Garretson & Bros., Pendleto son county,
Warren Mason, Wabash, Ind; Joseph Cole, Ind. *CLASS XI.—Jerseys and Other Breeds.* Jersey bull, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman apolis, Second premium, A. Garretson & Bros., Pendleto son county, Jersey bull, 1 year old and under 2, "Beech Grove Fa
Warren Mason, Wabash, Ind; Joseph Cole, Ind. CLASS XI.—Jerseys and Other Breeds. Jersey buil, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman apolis, Second premium, A. Garretson & Bros., Pendleto son county, Jersey bull, 1 year old and under 2, "Beech Grove Fagallston, Marion county, Jersey cow, 3 years old and over, W. J. Hasselman, In
Warren Mason, Wabash, Ind; Joseph Cole, Ind. CLASS XI.—Jerseys and Other Breeds. Jersey buil, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman apolis, Second premium, A. Garretson & Bros., Pendleto son county, Jersey bull, 1 year old and under 2, "Beech Grove Fagallston, Marion county, Jersey cow, 3 years old and over, W. J. Hasselman, In lis,
Warren Mason, Wabash, Ind; Joseph Cole, Ind. CLASS XI.—Jerseys and Other Breeds. Jersey buil, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman apolis, Second premium, A. Garretson & Bros., Pendleto son county, Jersey bull, 1 year old and under 2, "Beech Grove Fagallston, Marion county, Jersey cow, 3 years old and over, W. J. Hasselman, In lis, Second premium, A. Garretson & Bros., Pendleton
Warren Mason, Wabash, Ind; Joseph Cole, Ind. CLASS XI.—Jerseys and Other Breeds. Jersey buil, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman apolis, Second premium, A. Garretson & Bros., Pendleto son county, Jersey bull, 1 year old and under 2, "Beech Grove Fagallston, Marion county, Jersey cow, 3 years old and over, W. J. Hasselman, In lis,
Warren Mason, Wabash, Ind; Joseph Cole, Ind. CLASS XI.—Jerseys and Other Breeds. Jersey bull, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman apolis, Second premium, A. Garretson & Bros., Pendleto son county, Jersey bull, 1 year old and under 2, "Beech Grove Fagallston, Marion county, Jersey cow, 3 years old and over, W. J. Hasselman, In lis, Second premium, A. Garretson & Bros., Pendleton Jersey cow, 2 years old and under 3, A. Garretson & Bros., Pendleton Jersey cow, 2 years old and under 3, A. Garretson & Bros., Pendleton Jersey cow, 2 years old and under 3, A. Garretson & Bros., Pendleton Jersey cow, 2 years old and under 3, A. Garretson & Bros., Pendleton Jersey cow, 2 years old and under 3, A. Garretson & Bros., Pendleton
Warren Mason, Wabash, Ind; Joseph Cole, Ind. CLASS XI.—Jerseys and Other Breeds. Jersey bull, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman apolis, Second premium, A. Garretson & Bros., Pendleto son county, Jersey bull, 1 year old and under 2, "Beech Grove Fagallston, Marion county, Jersey cow, 3 years old and over, W. J. Hasselman, In lis, Second premium, A. Garretson & Bros., Pendleton Jersey cow, 2 years old and under 8, A. Garretson & Bros., Pendleton
Warren Mason, Wabash, Ind; Joseph Cole, Ind. CLASS XI.—Jerseys and Other Breeds. Jersey buil, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman apolis, Second premium, A. Garretson & Bros., Pendleto son county, Jersey bull, 1 year old and under 2, "Beech Grove Fagallston, Marion county, Jersey cow, 3 years old and over, W. J. Hasselman, In lis, Second premium, A. Garretson & Bros., Pendleton Jersey cow, 2 years old and under 8, A. Garretson & Bidleton, Second premium, A. Garretson & Bros., Pendleton Jersey heifer, 1 year old and under 2, A. Garretson & Br
Warren Mason, Wabash, Ind; Joseph Cole, Ind. CLASS XI.—Jerseys and Other Breeds. Jersey bull, 3 years old and over, J. W. Myser, Butlervinings county, Second premium, W. A. Ketcham. Indianapolis, Jersey bull, 2 years old and under 3, W. J. Hasselman apolis, Second premium, A. Garretson & Bros., Pendleto son county, Jersey bull, 1 year old and under 2, "Beech Grove Fagallston, Marion county, Jersey cow, 3 years old and over, W. J. Hasselman, In lis, Second premium, A. Garretson & Bros., Pendleton Jersey cow, 2 years old and under 8, A. Garretson & Bros., Pendleton

Jersey heifer calf, "Beech Grove Farm," Ingaliston, Marion
county,
Second premium, W. A. Ketcham, Indianapolis, 3 Jersey breeding cow with calf at foot, "Beech Grove Farm,"
Ingaliston, Marion county,
Grove Farm," Diploma
Devon bull, W. A. Macy, Lewisville, Henry county,
Devon cow, G. W. Lancaster, Indianapolis,
Ayrshire cow, Mrs. A. Wallace, Indianapolis,
Polled Angus bull, J. Baugh & Lutes, Farmer's Institute,
Polled Angus cow, J. Baugh & Lutes, Farmer's Institute, 10
2 Onote 12116 to 0011, 0. 20th bit to 22 th out of 0 1110 to the out of 0.
COMMITTEE-James W. Kay, Fredricksburg; Warren
Mason, Wabash; Joseph Cole, Poseyville, Posey county.
Brubon, Wubush, Goseph Cole, 1 osey ville, 1 osey county.
SPECIAL PREMIUMS ORDERED BY BOARD.
CLASS XII.—Oxen and Steers.
Steer, 3 years old and over, J. P. Forsythe, Franklin, Johnson county
Steer, 2 years old and under 3, J. Baugh & Son, Farmers' Institute,
BAM CAMMY E CHEED AND HOOG
FAT CATTLE, SHEEP AND HOGS.
Fatted steer, J. P. Forsythe, Franklin, Johnson county 10
Fatted cow, J. Baugh & Son, Farmers' Institute,
Fatted sheep, T. B. Bennington, Laporte, Lorain county, Ohio, . 5
COMMITTEE—James W. Kay, Fredricksburg, Ind.; Warren Mason, Wabash, Ind.; Joseph Cole, Poseyville, Ind.
CLASS XIII.—Sweepstakes on Cattle.
Bull, any age or breed, David Selsor, London, Madison county, Ohio,
Cow, any age or breed, E. Clore, Alamo, Montgomery county, . 50
HERDS.
Bull, with 3 of his calves not over 12 months old, J. Baugh &
Son, Farmers' Institute,
Herd of 5 head, consisting of 1 bull and 4 cows or heifers 2 years old and over, E. Clore, Alamo, Montgomery county, . 100

Herd	under	2 yea	ra old	consis	ting (of I	bult	and
	owne	d by e	exhibit	or sixty	y days	pre	vious	to e
	Thom	as W	ilhoit,	Middlet	own,	Hen	ry co	unty
Herd,	1 bull a	nd 4 c	OW8 OI	heifers	any i	age (or bre	ed, c
·	bred l	by exh	ibitor	in Indi	апа, Т	non.	as W	'ilboi
	to	•			•			

COMMITTEE - R. C. McWilliams, Marsh. King, Edinburg; O. Siple, Petersburg.

SHEEP.

S. R. QUICK, Superintendent.

CLASS XIV - Fine Wool Sheep, to include American French Merinos.

Buck, 2 years old and over, Cook, Morse & Co., I
Union county, Ohio,
Second premium, Thomas Wilhoit, Middletown
Buck, 1 year old and under 2, Thomas Wilhoit, Midd
Second premium, Cook, Morse & Co., Raymon
county, Ohio,
Buck lamb, Cook, Morse & Co., Raymonds, Union cou
Second premium, Thomas Wilhoit, Middletown,
Ewe, 2 years old and over, Cook, Morse & Co., Raymor
county, Ohio,
Second premium, Cook, Morse & Co., Raymon
county, Ohio,
Ewe, 1 year old and under 2, Cook, Morse & Co., I
Union county, Ohio,
Second premium, Cook, Morse & Co., Raymon
county, Ohio,
Ewe lamb, Cook, Morse & Co., Raymonds, Union cour
Second premium, Thomas Wilhoit, Middletown,
Five lambs, Cook, Morse & Co., Raymonds, Union coo
COMMITTEE-Hiram Barricklow, Aurora,
M. Cartmell, Logansport, Indiana; E. H. Ev
ville, Indiana.

. \$12

		C	LAS	SS X	V .—	Let	icester (or Lin	coln.			
Buck,	2 years	old	and	over,	w.	L.	Scott,	Scott	Stat	ion,	Shell	by
	count	ty, E	Centr	icky,	•	•	•	•	•	•		•

Second premium, Uriah Privett, Greensburg, Decatur co. 5

Committee—Hiram Barricklow, Aurora; J. M. Cartmell, Logansport; E. H. Evans, Raglesville.

CLASS XVI.—Long Wool Sheep—Cotswolds.

Duck, z years old and over, T. w. Samuels & Sons, Deausville,	
Kentucky,	\$12
Second premium, S. W. Dungan, Franklin, Johnson county,	
Indiana,	6
Buck, 1 year old and under 2, T. W. Samuels & Sons, Deatsville,	
Kentucky,	8
Second premium, T. W. Samuels & Sons, Deatsville, Ky.,	4
Buck lamb, T. W. Samuels & Sons, Deatsville, Kentucky, .	6
Second premium, T. W. Samuels & Sons, Deatsville, Ky., .	3
Ewe, 2 years old and over, Cal. Darnell, Indianapolis,	10
Second premium, S. W. Dungan, Franklin,	5
Ewe, 1 year and under 2, T. W. Samuels & Sons, Deatsville, Ky.,	6
Second premium, T. W. Samuels & Sons, Deatsville, Ky., .	3
Ewe lamb, T. W. Samuels & Sons, Deatsville, Ky.,	4
Second premium, Cal. Darnell, Indianapolis,	2
Five lambs, T. W. Samuels & Sons, Deatsville, Ky.,	8
Second premium, Cal. Darnell, Indianapolis,	4

COMMITTEE — J. M. Cartmell, Logansport, Ind.; H. Barricklow, Aurora; J. S. Blackledge, Rushville; J. C. Boroughs, East Germantown; J. H. Hancock, Fredricksburg.

CLASS XVII.—Southdowns.

Buck, 2 years old and over, F. A. Byars, Simpsonville, She	lby	
county, Kentucky,	•	\$ 12
Second premium, T. B. Bennington, Laporte, Lorain con		
ty, Ohio,	•	6
Buck, 1 year old and under 2, F. A. Byars, Simpsonville, Ky	, •, •	8
Second premium, T. B. Bennington, Laporte, Ohio, .		4

Buck lamb, F. A. Byars, Simpsonville, Ky.,	\$ 6
Second premium, F. A. Byars, Simpsonville, Ky.,	3
Ewe, 2 years old and over, F. A. Byars, Simpsonville, Ky.,	10
Second premium, F. A. Byars, Simpsonville, Ky.,	5
Ewe, 1 year old and under 2, F. A. Byars, Simpsonville, Ky.,	6
Second premium, T. B. Bennington, Laporte, Ohio,	3
Ewe lamb, F. A. Byars, Simpsonville, Ky.,	4
Second premium, T. B. Bennington, Laporte, Ohio,	2
Five lambs, F. A. Byars, Simpsonville, Ky.,	8
Second premium, Uriah Privett, Greensburg,	4
COMMITTEE—Hiram Barricklow, J. M. Cartmell, E.	H.
Evans, J. H. Hancock, J. C. Boroughs.	
CLASS XVIII.—Oxfordshire, Shropshire and Hampshire.	
ODADO A VIII.—OLJOROBROTE, STOPSTUTE WILL MUNICIPALITE.	
Buck, 2 years old and over, Geo. Allen, Palamo, Illinois,	\$ 12
Second premium, T. B. Bennington, Laporte, Lorain coun-	•
ty, Ohio,	6
Buck, 1 year old and under 2, Geo. Allen, Palamo, Illinois, .	8
Second premium, Geo. Allen, Palamo, Illinois,	4
Buck lamb, T. B. Bennington, Laporte, Lorain county, Ohio,	5
Second premium, T. B. Bennington, Laporte, Ohio,	2
Ewe, 2 years old and over, Geo. Allen, Palamo, Illinois, .	10
Second premium, Geo. Allen, Palamo, Illinois,	5
Ewe, 1 year old and under 2, Geo. Allen, Palamo, Illinois,	6
Second premium, Geo. Allen, Palamo, Illinois,	3
Ewe lamb, T. B. Bennington, Laporte, Ohio,	4
Second premium, T. B. Bennington, Laporte, Ohio,	
Five lambs, T. B. Bennington, Laporte, Ohio,	
Second premium, Uriah Privett, Greensburg,	4
COMMITTEE-Hiram Barricklow, J. M. Cartmell, E.	H.
Evans, J. H. Hancock, J. C. Boroughs.	
Livans, J. 11. Hancock, J. C. Doroughs.	
CLASS XIX.—Sweepstakes on Fine Wool and other Sheep. Fine	Vool
to include American, Spanish and French Merino.	
Prode Thomas Wilheit Middletown	41 0
Buck, Thomas Wilhoit, Middletown,	\$ 10
Buck, having five best lambs, Cook, Morse & Co., Raymonds,	
Union county, Ohio,	15
Ewe, any age, Cook, Morse & Co., Raymonds, Union county, O.,	10
COMMITTEE-J. C. Boroughs, J. S. Blacklidge, J.	H.
Hancock.	

LONG WOOL.

Buck, W. L. Scott, Scott Station, Kentucky,
Kentucky,
Ewe, any age, Cal. Darnell, Indianapolis, 10
COMMITTEE—Martin Pearson, Greenwood, Ind.; E. H. Evans, Raglesville; Lee McDaniels, Rushville.
MIDDLE WOOL.
Buck, George Allen, Palamo, Illinois,
Buck having 5 best lambs, F. A. Byars, Simpsonville, Kv., . 15
Ewe, any age, George Allen, Palamo, Illinois, 10
COMMITTEE—Lee McDaniels, Rushville, Ind.; Harrison Nutgrass, Belmore, Ind.; Jasper Heck, Waldron, Ind.

HOGS.

DEMPSEY SEYBOLD, Superintendent.

CLASS XX.—Berkshire.

Boar, 2 years old and over, A. S. Gilmour & Co., Greensburg, Second premium, Heck & McColley, Waldron, Shelby	\$ 12
county, Indiana,	6
Boar, 1 year old and under 2, A. S. Gilmour & Co., Greensburg,	12
Second premium, James Riley, Thorntown, Boone county,	6
Boar, under 12 and over 6 months old, Heck & McColley, Wal-	
dron,	10
Second premium, A. C. Shortridge, Gem,	5
Boar, under 6 months old, James Riley, Thorntown,	5
Second premium, I. N. Barker, Thorntown,	8
Sow, 2 years old and over, A. S. Gilmour & Co., Greensburg,	12
Second premium, Heck & McColley, Waldron,	6
Sow, 1 year old and under 2, John M. Leech, Dunlapsville,	10
Second premium, Wesley White, Pendleton,	5
Sow, under 12 and over 6 months old, Wesley White, Pendle-	
ton,	5
Second premium, A. C. Shortridge, Gem,	3

Sow, under 6 months old, Heck & McColley, Waldron,	\$ 5
Second premium, I. N. Barker, Thorntown,	3
Five shoats under 6 months old, Heck & McColley, Waldron,	10
Second premium, I. N. Barker, Thorntown,	5
Sow, and not less than 5 sucking pigs, Jas. Riley, Thorntown,	10
Second premium, J. F. Farris, New Maysville,	5
COMMITTEE-Walter W. Fagins, Montgomery, India	.na;
J. B. Agnew, Winamac, Indiana; G. W. Sullins, Lafaye	
Indiana.	,
CLASS XXI.—Pland China.	
Boar, 2 years old and over, A. E. Slaughter, South Charleston,	
• • • • • • • • • • • • • • • • • • • •	\$ 12
Second premium, A. W. Ross, Muncie, Delaware county,	6
Boar, 1 year old and under, A. E. Slaughter, South Charleston, O.,	12
Second premium, Shepard & Alexander, Charleston, Coles	•
county, Illinois,	6
Boar, under 12 and over 6 months old, A. S. Gilmour & Co.,	40
Greensburg,	10
Second premium, W. A. Robbins & Co., Greensburg, .	5
Boar, under 6 months old, Lon Hunter, Morrow, Ohio,	5
Second premium, A. W. Ross, Muncie,	3
Sow, 2 years old and over, A. E. Slaughter & Co., South Charles-	12
ton, Madison county, Ohio,	6
Sow, 1 year old and under 2, Shepard & Alexander, Charleston,	U
Coles county, Illinois,	10
Second premium, A. W. Ross, Muncie,	5
Sow, under 12 and over 6 months old, S. S. Whiteside, Franklin,	5
Second premium, A. E. Slaughter, South Charleston, Ohio,	3
Sow, under 6 months old, A. E. Slaughter, South Charleston, O.,	5
Second premium. A. W. Ross, Muncie,	3
Five shoats, under 6 months old, A. E. Slaughter, South Charles-	
ton, Ohio,	10
Second premium, W. A. Robbins & Co., Greensburg, .	5
Sow, and not less than 5 sucking pigs, Mugg & Seagraves, Cen-	
ter, Howard county,	10
Second premium, J. Heavenridge, Liberty,	5
COMMITTEE-George W. King, Edinburg, Indian	18 :
S. K. Cofield, Bothe, Wayne county, Indiana; Arth	_
Brooks, Greenfork, Wayne county, Indiana.	- 404
ALVORDA VALVARIVARI, II KI HV UVUHUI A AHVIGHGA	

CLASS XXII.—Large White Breeds.

Boar, 1-year old and over, R. S. Russell, Zionsville, Boone co.,	\$ 12
Boar, under 12 and over 6 months old, R. S. Russell, Zionsville,	
Boone county,	10
Second premium, R. S. Russell, Zionsville, Boone county,	5
Boar, under 6 months old, I. N. Barker, Thorntown,	
Second premium, R. S. Russell, Zionsville,	8
Sow, 2 years old and over, R. S. Russell, Zionsville	12
Sow, 1 year old and under 2, R. S. Russell, Zionsville,	
Sow, under 12 and over 6 months old, R. S. Russell, Zionsville,	
Sow, under 6 months old, I. N. Barker, Thorntown,	5
Second premium, R. S. Russell, Zionsville	
Five shoats, under 6 months old, R. S. Russell, Zionsville, .	
Sow and not less than 5 sucking pigs, R. S. Russell, Zionsville,	10
COMMITTEE-Walter W. Fagins, Montgomery, In	ad.;
G. W. Sullins, Lafayette, Ind.; J. B. Agnew, Winamac, I.	
CLASS XXIII—Suffolk, Essex and other Small Breeds, regardles. Color.	s of
Boar, 1 year old and over, T. B. Bennington, Laporte, Lorain	
county, Ohio,	\$ 12
Second premium, Frank Wilson, Jackson, Michigan, .	6
Boar, under 12 and over 6 months old, Frank Wilson, Jack-	
son, Michigan,	10
Second premium, Frank Wilson, Jackson, Michigan, .	5
Boar, under 6 months old, Frank Wilson, Jackson, Michigan, .	5
Second premium, Frank Wilson, Jackson, Michigan, .	. 3
Sow, 2 years old and over, Frank Wilson, Jackson, Michigan, .	12
Second premium, Frank Wilson, Jackson, Michigan, .	6
Sow, 1 year old and under 2, Frank Wilson, Jackson, Michigan,	10
Second premium, Frank Wilson, Jackson, Michigan, .	5
Sow, under 12 and over 6 months old, Frank Wilson, Jackson,	
Michigan,	5
Second premium, Frank Wilson, Jackson, Michigan .	8
Sow, under 6 months old, Frank Wilson, Jackson, Michigan, .	5
Second premium, Frank Wilson, Jackson, Michigan, .	3
Five shoats, under 6 months old, Frank Wilson, Jackson, Mich.,	10
Second premium, Frank Wilson, Jackson, Michigan, .	5
Sow, and not less than five sucking pigs, Frank Wilson, Jackson,	-
Michigan,	10
Second premium, T. B. Bennington, Laporte, Ohio.	5

Boar, Jersey Red, Emsley Wright & Geo. Thayer, New Augusta, Marion county,
COMMITTEE — Walter W. Fagins, Montgomery, Ind.; G. W. Sullins, Lafayette, Ind; J. B. Agnew, Winamac, Ind.
CLASS XXIV.—Poland Chinas, Chester Whites, Jersey Reds, and other large breeds.
SWEEPSTAKES ON HOGS.
Boar, any age, A. E. Slaughter, S. Charleston, Madison co., Ohio, \$15 Sow, any age, Shepard & Alexander, Charleston, Coles co., Ill. 15 Herd of 1 boar and 5 sows, any one breed, regardless of age, size and color, all owned by one exhibitor, A. E. Slaughter, S. Charleston, Madison county, Ohio,
Berkshire, Essex, Suffilks, and other small breeds.
Boar, any age, A. S. Gilmour & Co., Greensburg,
mour & Co., Greensburg,
Committee — Warren Mason, Wabash, Ind.; Joseph Cale, Poseyville, Ind.; D. F. Drook, Liberty, Ind.
POULTRY DEPARTMENT.
S. R. Quick, Superintendent.
CLASS XXV.
Light Brahma fowls, G. A. Danley, Indianapolis,

PREMIUM AWARDS.

Dark Brahma chicks, Sid Conger, Flat Rock,	\$ 3
Second premium, Holaday & McCracken, Monrovia, .	2
Buff Cochin fowls, Sid Conger, Flat Rock,	8
Second premium, Josh Hollingsworth, Fairmont, Grant county,	2
Buff Cochin chicks, Sid Conger, Flat Rock,	3
Second premium, Sid Conger, Flat Rock,	2
Partridge Cochin fowls, B. F. Hill, Indianapolis,	3
Second premium, W. B. Shyrigh, Urbana, Ohio,	2
Partridge Cochin chicks, W. B. Shyrigh, Urbana, Ohio,	8
Second premium, Robert Bogue, Fairmont,	2
Pea Comb Partridge Cochin chicks, Indiana Poultry Yards, In-	_
dianapolis,	8
Second premium, Indiana Poultry Yards, Indianapolis, .	2
White Cochin fowls, J. Heavenridge, Liberty, Union county,	8
Second premium, Carey Parrish, Shelbyville,	2
_ · · · · · · · · · · · · · · · · · · ·	3
White Cochin chicks, Carey Parrish, Shelbyville,	2
Second premium, W. B. Shyrigh, Urbana, Ohio,	_
Black Cochin fowls, Thomas W. Pottage, Indianapolis,	3
Second premium, Thomas W. Pottage, Indianapolis,	2
Black Cochin chicks, Thomas W. Pottage, Indianapolis,	8
Second premium, Carey Parrish, Shelbyville,	2
Plymouth Rock fowls, Sid Conger, Flat Rock,	8
Second premium, Carey Parrish, Shelbyville,	2
Plymouth Rock chicks, Sid Conger, Flat Rock,	3
Second premium, Sid Conger, Flat Rock,	2
White Leghorn fowls, Tilson & Robison, Rocklane,	8
Second premium, Thomas W. Pottage, Indianapolis,	2
White Leghorn chicks, Tilson & Robison, Rocklane,	2
Second premium, Thomas W. Pottage, Indianapolis, .	1
Brown Leghorn fowls, Thos. W. Pottage, Indianapolis,	8
Second premium, Thos. W. Pottage, Indianapolis,	2
Brown Leghorn chicks, Thos. W. Pottage, Indianapolis,	2
Second premium, H. C. Green, Indianapolis,	1
White F. black Spanish fowls, Stanton & Gregg, Greenwood, .	2
Second premium, Stanton & Gregg, Greenwood,	1
White F. black Spanish chicks, Stanton & Gregg, Greenwood, .	2
Second premium, Geo. W. Dunning, Marion, Grant Co.,	1
White C. B. Polish fowls, I. N. Barker, Thorntown, Boone Co	2
White C. B. Polish chicks, Carey Parrish, Shelbyville,	2
Second premium, I. N. Barker, Thorntown,	1
Bearded W. C. W. Polish fowls, Mrs. Joseph E. Cobb, Indian-	
apolis,	2

Bearded W. C. W. Polish chicks, Mrs. Joseph E. Cobb
apolis,
Second premium, Mrs. Joseph E. Cobb, Indianapo
Houdan fowls, S. A. Thomas, Laporte,
Second premium, J. Foedick, Laporte,
Houdan chicks, D. H. Jenkins, Indianapolis,
Second premium, D. H. Jenkins, Indianapolis,
Golden Hamburg fowls or chicks, Stanton & Gregg, Gr
Second premium, Josh Hollingsworth, Fairmont,
Silver Hamburg fowls or chicks, Stanton & Gregg, Gre
Second premium, Sid. Conger, Flat Rock,
Black breasted R. game fowls, S. A. Thomas & Co., Lar
Black breasted R. game chicks, S. A. Thomas & Co., La
Second premium, Abraham Findling, Indianapolis
Black bred game bantam chicks, H. C. Green, Indiana,
Second premium, Holaday & McCracken, Monro
gan county,
Duck wing game bantam fowls or chicks, R. H. Obrist
apolia,
Second premium, Wm. Seiders, Indianapolis,
Golden Sebright bantam fowls or chicks, I. N. Barker
town,
Second premium, I. N. Barker, Thorntown, .
Silver Sebright bantam fowls or chicks, I. N. Barker
town,
Second premium, I. N. Barker, Thorntown, .
Bronze turkeys, old birds, Frank Wilson, Jackson, Mic
Second premium, John Marvel, Royalton, Boone
Bronze turkeys, hatch of 1880, John Marvel, Royalton
county,
White Holland turkeys, old birds, G. A. Danley, India
Second premium, H. C. Green, Indianapolis, .
White Holland turkeys, hatch of 1880, G. A. Danley, Indi
Second premium, W. A. Cox, Brightwood, .
Aylesbury ducks, Tilson & Robison, Rocklane,
Second premium, Stanton & Gregg, Greenwood,
Pekin ducks, Tilson & Robison, Rocklane,
Second premium, Tilson & Robison, Rocklene,
Rouen ducks, H. C. Green, Indianapolis,
Second premium, Stanton & Gregg, Greenwood,
Embden geese, Wm. A. Ennis, Clermont, Marion coun
Second premium, Wm. A. Ennis, Clermont, Marior
Toulouse geese, Wm. Norris, Indianapolis,
Chinese geese, Wm. A. Ennis, Clermont,

Wild geese, Wm. A. Ennis, Clermont,
Best collection of rabbits, ferrets, guinea pigs and other small pet animals, Indiana Poultry Yards, Indianapolis, . 5
NON-ENUMERATED POULTRY.
Black Leghorn chicks, Thomas W. Pottage, Indiana-
polis,
White herons, W. H. Dye, Indianapolis, White Ribbon
Shepherd, 1 bitch and litter of pups, Indiana Poul-
try Yards, Indianapolis, White Ribbon
One dog, shepherd, Indiana Poultry Yards, Indian-
apolis, White Ribbon
Black Hamburg chicks, Sid. Conger, Flat Rock, Shel-
by county, Blue Ribbon
Red pile game bantam fowls, Sid. Conger, Flat Rock,
- •
Shelby county, White Ribbon
Duck-wing game, S. A. Thomas & Co., Laporte, . White Ribbon
White Georgian game, S. A. Thomas & Co., Laporte, White Ribbon
English red game, S. A. Thomas & Co., Laporte, . White Ribbon
Tartar game, S. A. Thomas & Co., Laporte, White Ribbon
Counterfeit game, S. A. Thomas & Co., Laporte, . White Ribbon
Pigeons, F. W. Swartz, Indianapolis, White Ribbon
White bantam fowls, Harry Newby, Indianapolis, . White Ribbon
Black Hamburg, Stanton & Gregg, Greenwood, . White Ribbon
Silver-gray Dorking, Stanton & Gregg, Greenwood, . White Ribbon
White bantam, Bertie Foltz, Indianapolis, White Ribbon
White Georgian game fowls, Reginald Walker, In-
dianapolis, Blue Ribbon
Collection pigeons, Indiana Poultry Yards, Indian-
apolis,
White Muscovy ducks, Albert Lewis, Indianapolis, Blue Ribbon
Duck and chicken (cross), Jane Somers, Indianapolis, Blue Ribbon
COMMITTEE—Daniel White, New London, Huron county, Ohio.

AGRICULTURAL DEPARTME

J. W. COFIELD, Superintendent.

(None but actual producers can compete in Classe:

CLASS XXVI. - Vegetables.

Three cauliflowers, L. Zbinden, Indianapolis,
Six broccoli, J. H. Thomas, Lawrence, Marion count
Six vegetable eggs, H. Adams, Logansport, Cass cour
Six cucumbers, Chas. Groeschel, North Indianapolis
Peck white beans, John Marvel, Royalton, Boone co
Two quarts Lima beans, John Marvel, Royalton, Boo
One-half gallon garden peas, dry, H. Adams, Logans
One-half gallon field peas, dry, J. H. Thomas, Lawre
One-half peck peppers for pickling, Jacob Traub, Inc
Peck tomatoes, Z. White, Lawrence,
Collection tomatoes, J. H. Thomas, Lawrence,
One-half dozen ears green sweet corn, Wm. A. Ennis
Marion county,

Half peck dry sweet corn, W. A. Ennis, Clermont, M. Three squashes, any kind, H. Adams, Logansport, Three Yankee pumpkins, John Marvel, Royalton, ... Half dozen nutmeg melons, John Marvel, Royalton, ... Three watermelons, John Marvel, Royalton, ... Three drumhead cabbage, J. H. Thomas, Lawrence, Three flat Dutch cabbage, H. Adams, Logansport, Three head cabbage, any kind, J. H. Thomas, Lawre Dozen stalks celery, Chas. Groeschel, North Indianap Collection vegetables by one exhibitor, H. Adams, Logansport, ... Second premium, J. A. Thomas, Lawrence,

COMMITTEE—R. S. Wells, Shelbyville, In Shelton, Rochester, Indiana; J. L. Sailors, W.

CLASS XXVII.-Root Crope.

Half bushel turnips, Wm. A. Ennis, Clermont, Mario Dozen parsnips, J. H. Thomas, Lawrence, . . . Dozen radishes, H. Adams, Logansport, . . . Dozen carrots, Charles Groeschel, North Indianapolis Dozen roots salsify, J. H. Thomas, Lawrence, . . .

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PREMIUM AWARDS.

Dozen horseradish, J. H. Thomas, Lawrence,	\$ 2
Half dozen beets (red) Frank Williamson, Nora, Marion co.,	2
Half dozen turnip beets, L. Zbinden, Indianapolis,	2
	_
Half dozen sugar beets, J. H. Thomas, Lawrence,	2
Half peck red onions, J. H. Thomas, Lawrence,	2
Half peck yellow onions, G. A. Danley, Indianapolis,	2
Half peck white onions, Frank Williamson, Nora,	2
Dozen turnip radishes, Charles Groeschel, North Indianapolis,.	1
Dozen long radishes, H. Adams, Logansport,	1
Display of onions in variety and quality, H. Adams, Logans-	
port, '	3
COMMITTEE—R. S. Wells, Shelbyville, Ind.; J. L. Seors, Wabash, Ind.; L. W. Shelton, Rochester, Ind.	il-
CLASS XXVIII.—Potatoes.	,
Peck pink peach blow, Andrew Martin, Muncie, Delaware co.,	\$ 3
Peck white peach blow, Andrew Martin, Muncie, Delaware co.,	8
Peck early rose, Henry A. Smith, Danville, Hendricks county,	3
Peck snow flake, Henry A. Smith, Danville, Hendricks county,	3
Peck pink eyes, Wm. A. Ennis, Clermont, Marion county,	3
Peck Shaker russett, H. Adams, Logansport, Cass county, .	3
Peck peerless, H. Adams, Logansport, Cass county,	3
Half bushel any variety, H. Adams, Logansport, Cass county,	8
Half bushel sweet potatoes, J. H. Thomas, Lawrence, Marion	_
county,	3
Peck early potatoes, any kind, Wm. A. Ennis, Clermont, .	3
Peck late potatoes, any kind, H. Adams, Logansport,	3
Collection Irish potatoes, not less than ten varieties, H. Adams,	
Logansport,	5
COMMITTEE—R. S. Wells, Shelbyville, Ind.; L. Shelton, Rochester, Ind.; J. L. Sailors, Wabash, Ind.	W.
CLASS XXIX.—Grain and Seeds.	
(Grain in this class must have been grown within the year hibited.)	ex-
Half bushel early field Dent corn in ear, Z. White, Lawrence, Marion county,	5

10-Agr. Report.

Half bushel yellow corn in ear, J. A. Heavenric

Union county,
Second premium, J. White, Lawrence,
Half bushel white corn in ear, Otha Hayes, Elizabet
Second premium, A. C. Swift, Bentonville, Fay
Half bushel corn any color, Charley Dawson, Br
v ·
Second premium, Otha Hayes, Elizabethtown,
Half bushel hominy corn, J. A. Heavenridge, Liber
Display and greatest variety wheat, not less than
each variety, John Marvel, Royalton, Boon
Half bushel white wheat, Wm. A. Ennis, Clermont,
Second premium, A. C. Swift, Bentonville, Fay
Half bushel red wheat, Henry Smith, Danville, He
Second premium, R. F. Prichard, Edinburg, Jo
Half bushel spring wheat, John Marvel, Royalton,
Second premium, Wm. A. Ennis, Clermont, .
Half bushel rye, Wm. A. Ennis, Clermont, .
Half bushel oats, R. F. Prichard, Edinburg,
Half bushel buckwheat, John Marvel, Royalton,
Half bushel barley, Hulbert Hayes, Elizabethtown,
Half bushel flaxseed, R. F. Prichard, Edinburg,
Half bushel millet seed, Wm. A. Ennis, Clermont,
Half bushel timothy seed, John Marvel, Royalton,
Half bushel orchard grass, Wm. A. Ennis, Clermon
Half bushel Kentucky blue grass seed, R. F. Pric
burg,
Half bushel English blue grass seed, Wm. A. Ennis
Half bushel red top grass seed, Wm. A. Ennis, Clert
Half bushel red clover seed, R. F. Prichard, Edinbu
Half bushel English cloverseed, Andrew Martin, M
COMMITTEE-R. S. Wells, Shelbyville, In
ors, Wabash, Ind.; L. W. Shelton, Rochester
CLASS XXX-Butter, Cheese and Hor
·
Thirty pounds creamery butter, Excelsior Creamery
Company, Indianapolis,
Second premium, E. Caldwell & Co., Harrisbu
county,
Five pounds dairy butter, G. A. Danley, Indianapoli
Second premium, Mrs. Anna Dilling, Hagersto
county,

Thirty pounds factory cheese, E. Caldwell & Co.,
Harrisburg, Fayette county, \$8 and Diploma
Second premium, Excelsior Creamery Co., Indianapolis, . 4
Ten pounds comb honey, in packages of 1 lb. or more, Frank
L. Dougherty, Indianapolis,
Ten or more 1 lb. packages extracted honey, Frank L. Dough-
erty, Indianapolis,
Crate of honey in comb, in most marketable shape, Frank L.
Dougherty, Indianapolis,
Display of honey, comb and extracted, Frank L. Dougherty,
Indianapolis,
Display wax, Frank L. Dougherty, Indianapolis,
Machine for extracting honey, Frank L. Dougherty, In-
dianapolis, Diploma
Display bee-keeping supplies, Frank L. Dougherty, In-
dianapolis, Diploma
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CLASS XXXI.—Cured Meats, Groceries, Flour, Crackers, etc.
Sample grits O. H. Hays, Indianapolis,
Sample grits, O. H. Hays, Indianapolis,
Sack corn meal, O. H. Hays, Indianapolis,
NON-ENUMERATED.
Hominy feed, O. H. Hays, Indianapolis, Meritorious
Corn flour, O. H. Hays, Indianapolis, Meritorious
Thorley food for horses, cattle, etc., Thorley Food Co.,
Chicago, Ill., Meritorious
Self-raising flour, Geo. V. Hecker & Co., Chicago, Il., { Excellent & Unsurpassed
Three sweet pumpkins, John Marvel, Royalton, Boone
county, Meritorious
COMMITTEE-R. S. Wells, Shelbyville, Ind.; J. L. Sail-
ors, Wabash; L. W. Shelton, Rochester; M. G. Warren.
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HORTICULTURAL DEPARTM

L. B. Custer, Superintendent.

CLASS XXXII.-Amateurs' List

APPLES.

PEARS.

varieties of pears, Mrs. Andrew Wallace, India e varieties of autumn pears, Mrs. Andrew Walla

PEACHES.

ree varieties of peaches, A. B. Shelledy, Danville, paritey of peaches, Henry Eickhoff, Sr., Indiana

GRAPES, GROWN IN OPEN AIR.

e varieties of grapes, Cornelius O'Haver, Danvi 'ee varieties of grapes, Mrs. Andrew Wallace, ' e clusters of grapes, any kind, Cornelius O'Hav

QUINCES.

DISPLAY OF FRUITS.

olay of fruits of all kinds, Mrs. A. Wallace, India

COMMITTEE—H. Mankedick, Indianapolis, seman, Knightstown, Indiana; James (ute, Indiana.

CLASS XXXIII.-Professional Lis

APPLES.

nty varieties of appples, E. A. Eickhoff, Indianapolis,

Ten varieties of apples, W. A. Ragan, Clayton, Hendricks county,
Six varieties of apples, E. A. Eickhoff, Indianapolis, 5 and Diploma
PEARS.
Ten varieties of pears, W. A. Ragan, Clayton, . 10 and Diploma Four varieties of autumn pears, E. A. Eickhoff, Indianapolis, 5 and Diploma
PEACHES.
Display of peaches, not less than 5 varieties, W. A. Ragan, Clayton, 5 and Diploma
NATIVE GRAPES.
Five varieties of grapes, W. A. Ragan, Clayton, . \$5 and Diploma Three varieties of grapes, W. A. Ragan, Clayton, . 3 and Diploma One variety of grapes, 10 clusters, W. A. Ragan, Clayton, 2 and Diploma We, your committee, find on the table, plate of <i>Prentiss grape</i> from T. S. Hubbard, Fredonia, N. Y, which is a beautiful white grape of great promise.
QUINCES.
Collection of quinces, not less than twelve specimens, G. Poindexter & Son, Blue Lick, Clark county,
DISPLAY OF FRUITS.
Display of fruits of all kinds, W. A. Ragan, Clayton,
COMMITTEE—John Freeman, Knightstown, Ind.; James Gilbert, Terre Haute, Ind.; Henry Mankedick, Indianapolis, Ind.
CLASS XXXIV.—Flowers and Plants—Professional List.
General collection of plants, Reiman Bros., Indianapolis, \$20 Second premium, Chas. Groeschel, N. Indianapolis,

ollection of ornamental foliage plants, Reiman Bi
Second premium, Chas. Groechel, N. Indianapo
ollection licopods and ferns, Reiman Bros., Indias
isplay and variety of climbers, Reiman Bros., Indi
Second premium, Chas. Groeschel, N. Indianap
ollection begonias, Reiman Bros., Indianapolis, .
Second premium, Chas. Groeschel, N. Indianap
ollection of new and rare plants, Reiman Bros., I
Second premium, Chas. Groeschel, N. Indianap
isplay and variety of cacti, aloes and agaves, Chas
N. Indianapolis,
Second premium, Reiman Bros., Indianapolis,
ollection of geraniums in bloom, Reiman Bros., Is
Second premium, Chas. Groeschel, North India
illection of foliage geraniums, Reiman Bros., Indi
Second premium, Chas. Groeschel, N. Indianapo
illection bedding plants, Reiman Bros., Indianapo
Second premium, Chas. Groeschel, N. Indianapo
becimen of palm, Reiman Bros., Indianapolis,
becimen of alacassia, Chas. Groeschel, N. Indiana
Second premium, Reiman Bros., Indianapolis,
pecimen of canna, Reiman Bros., Indianapolis, .
Second premium, Chas Groeschel, N. Indianapo
recimen variegated leaved plants, Reiman Bros., I
Second premium, Chas. Groeshel, N. Indianapo
ispended basket, Reiman Bros., Indianapolis,
Second premium, Chas. Groeschel, N. Indianap
rranged wardian case, Reiman Bros., Indianapolis
plection fuchias in bloom, Reiman Bros., Indiana
slication of loose cut flowers, Reiman Bros., India
Second premium, Chas. Groeschel, N. Indianap
asket of cut flowers, Reiman Bros., Indianapolis,
Second premium, Bertermann Bros., Indianapo
rrangement and display of dahlias, Berterman B.
apolis,
allection baskets, boquets and floral designs, l
Bros., Indianapolis,
Second premium, Reiman Bros., Indianapolis,
aree designs for funerals, Reiman Bros., Indianap
Second premium, Bertermann Bros., Indianapo
ridal boquet, Reiman Bros., Indianapolis,
Second premium, Chas. Grosschel, N. Indiana,

Pyramic	d boquet, l	Rein	an	Br	os., I	ndian	apolis	, .	•	•	•	\$ 2
Sec	ond premi	ium,	C	has.	Gro	eschel	, N. Ir	dian	apolis,		•	1
Display	and arran	_					-					
	dianapolis	3,	•	•	ı	•	•	•	•	•	•	5
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COMMITTEE—John Freeman, Knightstown, Ind.; Maria Willey, P. A. Wilson.

CLASS XXXV.—Amateur's List.

Collection of cut flowers, Mrs. Dr. Dudley Rogers, Greencastle,	\$ 10
Collection cut roses, not less than 10 varieties, Mrs. Dr. Dudley	
Rogers, Greencastle,	5
Collection cut verbenas, L. Zbinden, Indianapolis,	3
Second premium, Frank Williamson, Nora, Marion county,	1
Basket of cut flowers, Mrs. Dr. D. Rogers, Greencastle,	3
Second premium, Mrs. M. T. Stewart, Indianapolis,	2
Round bouquet, Mrs. M. T. Stewart, Indianapolis,	3
Second premium, Miss Anna Redmond, Indianapolis, .	2
Flat bouquet, Miss Mary Hanna, Fort Wayne,	3
Second premium, Mrs. T. A. Loyd, Indianapolis,	2

COMMITTEE—John G. Heinl, Terre Haute, Ind.; L. M. Pratt, Indianapolis, Ind.; John Freeman, Knightstown, Ind.

TEXTILE FABRICS DEPARTMENT.

JACOB MUTZ, Superintendent.

CLASS XXXVI—Mill Manufactured.

Best plaid flannels, J. Leibhard, Knightstown, . . . Silver Medal Best flannel sheeting, cotton warp, J. Leibhard, Knightstown, Henry county, . . . Silver Medal

COMMITTEE—Laura McDonough, Anderson, Ind.; Jennie E. Patterson, Princeton, Ind.; R. S. Wells, Shelby-ville, Ind.

WOMAN'S DEPARTMENT.

MRS. MARY E. HAGGART, Superintenden

CLASS XXXVII.—Domestic Manufacture

All wool coverlet, Jennie Lackey, Cambridge City, ... Cotton coverlet, Mrs. Adams, Logansport, Wool and cotton coverlet, Mrs. W. H. Vincent, Indian Woolen double coverlet, Mrs. Jacob Parrish, Indianap Cotton double coverlet, Mrs. Adams, Logansport, Wool and cotton double coverlet, Mrs. Jacob Parrish, polis, Pair blankets, Mrs. S. Harlan, Greensburg, Counterpane, Mrs. W. H. Vincent, Indianapolis, Counterpane, knit, Mrs. Maria John, Indianapolis, Counterpane, crochet, Mrs. R. C. Belt, Milford, Ohio, Ten yards jeans, Mrs. J. Leibhard, Knightstown, . Ten yards table linen, Mrs. S. Harlan, Greensburg, ... Ten yards linsey, Mrs. J. Leibhard, Knightstown, . Ten yards plain flannel, Mrs. J. Leibhard, Knightstown Ten yards plaid flannel, Mrs. Jacob Parrish, Indianapo Ten yards rag carpet, E. M. Homer, Knightstown, Ten yards woolen carpet, Mrs. Grooms, Gallatin, Tenn. Pound flax thread, Mrs. M. Caylor, Indianapolis, Quilted skirt, Mrs. S. Harlan, Greensburg, Silk comforter, Mrs. S. Harlan, Greensburg, Calico quilt, Mrs. Lizzie Boadwee, Terre Haute, Worsted quilt, Mrs. A. B. Bosserman, Indianapolis, . Second premium, Mrs. E. J. Springer, Lawrence, county, . Silk quilt, Mrs. A. B. Bosserman, Indianapolis, Second premium, Mrs. T. E. Reynolds, Noblesville White quilt, Mrs. Grooms, Gallatin, Tenn., Second premium, Miss E. Wells, Shelbyville, Floor mat, worsted, Mrs. Jennie Howard, Anderson, Floor mat, rag, Mrs. Grooms, Gallatin, Tenn., Hearth rug, Mrs. Adams, Logansport, Second premium, Mrs. Adams, Logansport, Collection of domestic goods, Elizabeth Fear, Edinburg

COMMITTEE-Mrs. M. F. Linsday, Kokomo, M. J. Harlan, Danville, Ind.

GLASS XXXVIII.—Knitting and Crochet Work.

Infant's knit or crochet shirt, Mrs. G. W. Dunning, Marion,
Grant county,
Infant's knit or crochet socks, Mrs. J. E. Howe, Muncie, Delaware county,
Pair knit or crochet mittens, Mrs. L. Oursler, Noblesville, . 1
Pair woolen stockings or socks, Mrs. Cleary, Indianapolis, . 1
Pair cotton stockings or socks, Mrs. C. C. Burns, Greensburg, 1
Knit or crochet shawl, Miss Ida A. James, Irvington, 2
Knit or crochet slippers, Mrs. DeMattos, Indianapolis, 1
Knit or crochet hood, Miss Ida A. James, Irvington, 1
Knit or crochet child's cloak, Mrs. R. C Belt, Milford, O., . 2
Knit or crochet fascinator, Mrs, R. C. Belt, Milford, O., 1
Knit or crochet sacque, Mrs. J. Leibhard, Knightstown, . 1
Knit or crochet lady's scarf, Mrs. D. J. Kuhn, Lawrence, Marion
county,
Knit or crochet gentleman's scarf, Mrs. E. M. Homer, Knights-
town,
Crochet cotton tidy, Mrs. Chas. Johnson, Indianapolis, 1
Crochet worsted tidy, Mrs. E. F. Moore, Indianapolis, 1
Afghan, Mrs. John R. Ross, Indianapolis,
Second premium, Mrs. J. E. Howe, Muncie
Afghan, infant's, Mrs. E. F. Moore, Indianapolis, 2
Second premium, Mrs. E. M. Homer, Knightstown, 1
Fancy knitting specimens, Mrs. J. E. Howe, Muncie, 1
COMMITTEE—Mrs. M. F. Linsday, Kokomo, Ind.; Mrs. M. J. Harlan, Danville, Ind.
CLASS XXXIX—Lace Work.
Point lace embroidery specimen, Mrs. M. Posz, Shelbyville, . \$5
Second premium, Mrs. C. C. Burns, Greensburg, 8
Third premium, Mrs. M. Posz, Shelbyville, 2
Point lace guipure specimen, Catharine Panyard, Indianapolis, 3
Second premium, Mrs. Mooney, Columbus,
Pillow lace specimen, Mrs. E. F. Moore, Indianapolis, 2
Darning on net specimen, Mrs. John Tarlton, Indianapolis, . 2
Second premium, Mrs. Emma A. Zink, Indianapolis, . 1
Applique lace, specimen, Mrs. M. Posz, Shelbyville,
Second premium, Mrs. Alice S. Moore, Greensburg, . 1
Crochet lace display, Miss Dollie Jonas, Indianapolis,

Knit lace display, Mrs. Malinda L. Murphey, Indianapol Tatting display, Mrs. A. B. Bosserman, Indianapolis, Breton lace display, Mrs. E. M. Rittenhouse, Indianapol Macrame lace display, Mrs. J. E. Howe, Muncie,

COMMITTEE—Mrs. J. R. Wood, Covington, M. E. Moody, Franklin, Ind.

CLASS XL.—Embroidery and Braiding.

Embroidery, with linen floss, specimen, Mrs. C. C. Greensburg,

Second premium, Mrs. C. C. Burns, Greensburg,

Embroidery, chemise, Mrs. M. Posz, Shelbyville,

Second premium, Mrs. Lou Ball, Crawfordsville, Embroidery, yoke and sleeves, Mrs. C. C. Burns, Greens

Second premium, Mrs. Carrie Learcy, Indianapolis

Embroidery, night dress, Mrs. Lou Ball, Crawfordsville Second premium, Mrs. M. Posz, Shelbyville,

Embroidery, child's dress, Mrs. J. E. Howe, Muncie, Second premium, Mrs. J. M. Vinby, Muncie,

Embroidery, table set, Mrs. C. C. Burns, Greensburg, Second premium, Mrs. C. C. Burns, Greensburg,

Embroidery, bed set, Mrs. E. C. Buskirk, Indianapolis, Embroidery, handkerchief, Mrs. C. C. Burns, Greensbur Embroidery, silk specimen, Mrs. E. W. Bacon, Indiana, Embroidery, silk stockings, Mrs. W. J. Carleton, Indian Embroidery, silk slippers, Mrs. J. D. Leibhard, Knights

Embroidery, silk skirt, Mrs. J. D. Leibhard, Knightstov Embroidery, silk infant's shawl, Mrs. Miles Burford, India

Second premium, Mrs. M. Posz, Shelbyville, Embroidery, skirt, worsted, Mrs. C. C. Burns, Greensbu

Embroidery, table cover, Mrs. A. M. Robertson, Indian. Second premium, Mrs. J. E. Howe, Muncie,

Embroidery, ottoman cover, Mrs. A. B. Bosserman, India Second premium, Miss Ida A. James, Irvington,

Embroidery, chair cover, Miss Ida A. James, Irvington Embroidery, chair cushion, Mrs. J. Leibhard, Knightst Embroidery, sofa cushion, Miss Mollie Dietz, Indianapo

Second premium, Mrs. James R. Ross, Indianapoli Embroidery, toilet cushion, Mrs. J. Liebhard, Knightst

Second premium, Miss Ida A. James, Irvington,

Embroidery, pin-cushion, Miss Kate Ryan, Indianapoli

Embroidery, bead specimen, Mrs. J. Liebhard, Knightstown, .	\$ 2
Second premium, Mrs. J. Liebhard, Knightstown,	1
Embroidery, applique specimen, Mrs. A. M. Robertson, Indianapolis,	2
Second premium, Mrs. M. Posz, Shelbyville,	. <u>.</u>
Embroidery, gem stitch specimen, Mrs. N. Gerauld, Princeton,	
Gibson county,	1
Embroidery, outline or etching display, Mrs. J. E. Howe, Muncie,	2
Embroidery, outline or etching specimen, A. M. Robertson, Indianapolis,	1
Embroidery, kensington, specimen, Mrs. L. E. Smith, Ind'polis,	3
Second premium, specimen, Mrs. Sadie Forker, Burlington, Iowa,	2
Embroidery, tapestry, display, Mrs. A. M. Robertson, Indianapolis, Diplo	
Embroidery, tapestry, specimen, Mrs. A. M. Robertson, Ind'polis,	2
Embroidery, art in colors, display, Mrs. W. J. Carleton, Indianapolis, Diplo	
Embroidery, art in colors, specimen, Mrs. A. M. Robertson,	LIIO
Indianapolis,	3
Second premium, Mrs. G. W. Dunning, Marion, Grant co.,	2
Chenille, specimen, Miss Jennie Lackey, Cambridge City, .	3
Second premium, Miss Mollie Holdeman, Indianapolis, .	2
Braiding, display, Mrs. C. C. Burns, Greensburg,	2
Braiding, specimen, Mrs. R. C. Belt, Milford, Ohio,	1
COMMITTEE—Belle Cooley, Crawfordsville, Indiana; M	rs.
J. W. Shideler, Marion, Grant county, Indiana.	
CLASS XLI.—Sewing—Machine and Hand.	
Machine-work, 5 articles, Mrs. S. Harlan, Greensburg,	\$ 3
Machine-work, shirt, Mrs. Grooms, Gallatin, Tenn.,	1
Machine-work, calico dress, Mrs. R. L. Carlin, Indianapolis, .	1
Hand-sewing, garment, Mrs. Grooms, Gallatin, Tenn.,	1
Hand-sewing, shirt, Mrs. Grooms, Gallatin, Tenn.,	1
Gent's cloth coat, made by a woman, Mrs. E. M. Homer, Knightstown,	5
Pair pants, made by a woman, Mrs. E. M. Homer, Knightstown,	2
Vest, made by a woman, Mrs. Grooms, Gallatin, Tenn.,	1
Boys suit, Mrs. E. Kirk, Shelbyville,	2
Darning on old garment, Mrs. A. B. Bosserman, Indianapolis,	1
Buttonholes, display on different materials, Mrs. Catharine	-
McAree, Indianapolis,	1
COMMITTEE-Belle Cooley, Crawfordsville, Ind.; M	rs.
J. W. Shideler, Marion, Grant county, Ind.	

BOARD OF AGRICULTURE.

CLASS XLII.—Miscellaneous.

t flowers, Mrs. John Newman, Indianapolis, .
t fruit, Mrs. C. DeLille, Indianapolis,
t work, ornamental, Mrs. D. O. Crist, Indianapolis,
diemondia
dianapolis,
l work, display, Mrs. W. J. Carleton, Indianapolis, .
l receiver, Sue M. Ketcham, Indianapolia,
dkerchief box, Mrs. L. E. Smith, Indianapolis,
e box, Mrs. E. M. Homer, Knightstown,
ter work, on card board, specimen, Mrs. E. C. Buskit dianapolis,
ter work, on cloth, specimen, Mrs. E. M. Homer, Kn
town,
mose ornament, Mrs. Dr. Hazzard, Edinburg,
nd moss ornament, Mrs. E. Rohrer, Indianapolis,
eton leaves and ferns, Mrs. Allen Lloyd, Cincinnati, (
. scale ornaments, Mrs. Lizzie Boadwee, Terre Haute
et cushion, not embroidered, Mrs. L. E. Smith, L
apolis,
Second premium, Mrs. Miles Burford, Indianapolis,
pillow, not embroidered, Mrs. J. E. Howe, Muncie,
Second premium, Mrs. Georgia Huston, Indianapolis
ip mats, fancy, Mrs. M. Posz, Shelbyville,
et set, Sue M. Ketcham, Indianapolis,
nt's nursery basket, Mrs. J. E. Howe, Muncie, .
sted work, not tapestry, Mrs. W. B. Smith, Indianapa
ure, tapestry work, Mrs. Sue Ewing, New Home, Bat
Missouri,
r stripes, Mrs. W. J. Carleton, Indianapolis,
ibrequins, Mrs. J. E. Howe, Muncie,
t, not crochet, Mrs. Dr. Brower, Lawrenceburg, .
Second premium, Mrs. A. M. Robertson, Indianapolis
fed birds, collection, Mrs. M. M. Duncan, Westville,
Second premium, Mrs. Dr. Hazzard, Edinburg, .
fed animals, collection, Mrs. M. M. Duncan, Westville
Second premium, Mrs. Dr. Hazzard, Edinburg, .
iting on silk or satin, display, Mrs. L. E. Smith, Ir
apolis,
Second premium, Sue M. Ketcham, Indianapolis,
sting on tiles, display, Mrs. Ben. Harrison, Indianapol
iting on panels, display, Sue M. Ketcham, Indianapoliting on wood, display, Sue M. Ketcham, Indianapolis
some on moon suckanii and are successificant

Painted fan, Sue M. Ketcham, Indianapolis, 1
Painted work, miscellaneous, Sue M. Ketcham, Indian-
apolis, Diploma
Decorated china display, Mrs. Ben Harrison, Indianapolis, . \$5
Second premium, Sue M. Ketcham, Indianapolis, 8
Decorated china, specimen, Sue M. Ketcham, Indianapolis, . 2
Pottery, made and decorated by exhibitor, display, Sue M.
Ketcham, Indianapolis,
Fret sawing, display, Miss M. Tarbell, Indianapolis, 2
Inlaid work, display, Miss M. Tarbell, Indianapolis,
Design for a dwelling house, by a woman, Mrs. E. C. Buskirk,
Indianapolis,
Kindergarten work, Miss Chapin, Indianapolis, Diploma
COMMITTEE-Mrs. M. E. Crist, Crawfordsville, Ind.;
Jennie E. Patterson, Princeton, Ind.
CLASS XLIII.—Dry Goods, Millinery, Etc.
Display of fancy goods, the Misses Lueders, Indianapolis, Diploma
Display of hair goods and work, Mrs. C. Thompson,
Chicago, Illinois, Diploma
Display of millinery, William Woodbridge, Indianapolis, Diploma
Two bonnets, William Woodbridge, Indianapolis, Diploma
COMMITTEE—Juliet R. Wood, Covington, Ind.; M. E.
Moody, Franklin, Ind.
CIT ASS VITV Culingue Articles
CLASS XLIV.—Culinary Articles.
Butter, home-made, 5 pounds, exhibited by a woman, Mrs. Geo.
Jackson, Ingaliston, Marion county, \$3
Second premium, Mrs. G. A. Danley, Indianapolis, 2
Honey in comb, 5 pounds, exhibited by a woman, M. A.
McLane, Shelbyville,
Second premium, Mrs. Kate Dougherty, Indianapolis, . 2
Bread, loaf wheat, hop yeast, home-made, Mrs. W. M. Voorhis,
Lawrence,
Second premium, Mrs. A. B. Bosserman, Indianapolis, . 2
Bread, salt-rising, home-made, Mrs. G. A. Danley, Indianapolis, 3
Second premium, Mrs. A. B. Bosserman, Indianapolis, . 2
Bread, brown, home-made, Mary Gearheart, Indianapolis, . 2
Second premium, Mrs. W. M. Voorhis, Lawrence, 1
Bread, corn, Mrs. G. A. Danley, Indianapolis,

Rusks, Mary Gearheart, Indianapolis, Light rolls, Mrs. G. A. Danley, Indianapolis, Cake, sample, home-made, Ids A. James, Irvingtor Second premium, Mrs. Dr. Hazzard, Edinburg Cake, collection, made by one exhibitor, Lottie Sp. ville, Second premium, Miss Mary Barnhart, Indian Catsup, collection, Mary Gearheart, Indianapolis, Jellies, collection, Mrs. E. M. Homer, Knightstown Second premium, Mrs. Grooms, Gallatin, Tenr Preserves, collection, 1 pint each, Grace D. Lever apolis, . Second premium, Mrs. S. P. Grubb, Indianapo Pickles, collection, Miss Fanny Melick, Indianapoli Dried fruit, collection, 1 pound each, Miss Mar Indianapolis, . Canned fruit, collection, Mrs. Ellen Armstrong, Ir Hard and soft soap, collection, Miss Fanny Melick Second premium, Mrs. R. J. Munsell, Indianar Maple molasses, half gallon, Jacob Parrish, Indians Tomato cataup, 1 pint, Mary Gearhart, Indianapolic Confectionery, display, Daggett & Co., Indianapolis

COMMITTEE—Mrs. Geo. Hayward, Terre Mrs. Laura McDonough, Anderson, Ind.

CHILDREN'S DEPARTMEN

(This department is open to girls and boys under age at the time of the fair.)

CLASS XLV.

Loaf wheat bread, yeast, Mattie Hester, Indianapo Second premium, Lillie Homer, Knightstown, Loaf wheat bread, salt-rising, Hattie Pickerill, Indi Second premium, Lillie Homer, Knightstown, Cakes, Grace Bugby, Indianapolis, Second premium, Ida C. Norwood, Indianapoli Jellies, collection, Susie M. Davis, Indianapolis, Second premium, Lillie Homer, Knightstown,

Hand-sewing, chemise, Yuba Burns, Greensburg, \$1
Hand-sewing, garment, Yuba Burns, Greensburg, 1
Patching on old garment, display, Lillie Homer, Knightstown, 2
Second premium, Lizzie Dickson, Cana, Jennings county, 1
Darning on old garment, display, Lillie Homer, Knightstown, 2
Embroidery, yoke and sleeves, Yuba Burns, Greensburg, 2
Embroidery, darning on net, Nelia Criqui, Indianapolis, . 1
Embroidery, worsted specimen, Yuba Burns, Greensburg, . 2
Embroidery, silk specimen, Lavina Morehead, Muncie, . 2
Second premium, Yuba Burns, Greensburg,
Crochet work, display, Lavina Morehead, Muncie, 2
Second premium, Daisy James, Irvington, 1
Pair knit stockings, Yuba Burns, Greensburg,
Pair knit mittens, Goldie Ingles, Irvington,
Tidy, Stella Wiles, Indianapolis,
Second premium, Gertrude Ellms, Indianapolis, 1
Pin cushion, Lavina Morehead, Muncie,
Toilet set, Lavina Morehead, Muncie,
Second premium, Lillie Homer, Knightstown, 1
Picture in needle-work, Jennie Mooney, Columbus, 2
Perforated card board work, display, Lavina Morehead, Muncie, 2
Air castle, Kittie J. Rowe, Indianapolis,
Picked work, display, Belle Bone, Indianapolis,
Wax work, specimen, Sammy Grubbs, Indianapolis, 1
Autumn leaves, wax, Nellie Robinson, Indianapolis, 1
Painting on wood, display, Martina Grubbs, Indianapolis, 2
Fret sawing, display, Jessie Fisher, Indianapolis, 2
Minerals, collection named, Fletcher M. Noe, Indianapolis, . 1
Butterflies and other insects, Fletcher M. Noe, Indianapolis, . 2
Second premium, Fletcher M. Noe, Indianapolis, 1
Collection, stamps and curiosities, Fletcher M. Noe, Indian-
apolis,

WOMAN'S DEPARTMENT.

NON-ENUMERATED LIST.

Water color painting, Daisy Burgess, Indianapolis. Beautiful. Panel in oil, G. R. Stewart, Indianapolis. Meritorious. Scrap fruit picture, Julia S. Richardson, Indianapolis. Ingenious. The galvanic spinal corset, Miss A. Woodard, Chicago, Ill. This

corset was invented by the exhibitor, and is a cobrace combined, with galvanic bands.

Painting in oil, water colors and crayon, Miss E. Indianapolis. A fine display.

Zephyr work and hair work, Mrs. G. A. Dank Good work.

Crochet cap, collar and lace, Belle Bone, age 13 yelis. Very nice work.

Paper flowers, Belle Bone, Indianapolis. Beautifu Knit bolster and pillow shams, Maggie Nutze. Painstaking work.

French embroidery, two collars, Mrs. M. Posz, Shwork.

Embroidery on cotton stockings, Miss Katie Ha Very good.

Oil painting, R. E. Sellick, Indianapolis. Credital Statuary, Mrs. C. B. Kirtland, Chicago, Ill. A state of Oliver P. Morton. Both pieces were pronounced of the Senator and indicated considerable artistic to

Paper flowers and three pastille paintings, Miss I ton, Indianapolis. All meritorious.

Brackets in putty work, Mrs. LaPage, Indianapol nious.

Oil painting, Mrs. T. A. Gillet, Indianapolis. Crec Adjustable curtain fixture, Miss Alice Cosand, practical invention of much merit. Diploma.

Agricultural wreath, Mrs. E. A. Lemon, Indianap Hair flowers, Mrs. Hazzard, Edinburg. Good wor Work box, Zula Wilson, age 12, Indianapolis. A very neatly made.

Paper flowers, Winnie Willard, age 12. Very nic Hair jewelry, Miss Sue Ewing, New Home, I work.

Display paper flowers, Miss Lydia Hale, Indiana imitations of nature in form and color.

Collection of Spanish embroidery, Mrs. Grubbs, In handsome collection, old, rare and valuable.

Lung remedy and liver pills, Mrs. E. Rohrer, Indisplay of medicine invented and manufactured by Corsets, Mrs. J. H. Gehb, Indianapolis. A fine d

man in business.

SPECIAL PREMIUMS,

Offered by business men and firms, and awarded at the annual State Fair, commencing September 27, 1880, under the usual rules and regulations:

WOMAN'S DEPARTMENT.

Schrader & Co., queensware, birds, etc., Nos. 72 and 74, East	
Washington street; painting on china, Sue M. Ketcham,	\$ 10
Indianapolis, chamber set, worth,	
Cathcart & Cleland, booksellers and stationers, No. 26 East Washington street; collections of pressed ferns, Mrs. Allen Lloyd, Indianapolis, jewel case, worth	10
Charles Mayer, toys, notions and fancy goods, No. 29 West Washington street; calico dress, made by a girl under 20 years of age, Ella Swift, Bentonville, Fayette county,	5
Bates House Shoe Store; knit stockings or socks, Mrs. G. W. Dunning, Marion, Grant county, one pair custom-made shoes, worth	5
L. W. Moses, optician, spectacles, No. 50 East Washington street; quilt made by oldest lady since January, 1879, Mrs. Mary Mason, Lawrence, Marion county, 1 pair gold spectacles, valued at	10
BUTTER, BREAD, ETC.	
Bowen & Stewart, booksellers and stationers, No. 18 West Washington street; 5 pounds home-made butter, Mrs. Geo. Jackson, Indianapolis, one volume of the "Centenary" or History of First 100 Years of our Country, valued at	
Henry Craft, of Craft & Co., jewelers, No. 24 East Washington	
street; 1 gallon jar mixed pickles, home-made, Mrs. J. E. Howe, Muncie, silver pickle dish,	12
New York Store, dry goods, millinery, etc., Nos. 25 to 31 East Washington street; collection brown bread, homemade, Mrs. Lottie Spicer, Shelbyville,	
11—Agr. Report.	J

- James Dryer, grocer, 100 N. Illinois street, brow made, Mrs. G. A. Danley, Indianapolis,
- Jacob Voegtle, stoves and tinware, 85 E. Wahome-made yeast bread, made by a y der 18 years of age, Nellie Brown, coffee machine worth

CHILDREN'S DEPARTMEN

- A. L. Wright & Co., carpet house, 47 and 49 S. 1 specimen of silk embroidery on cloth, l 15 years of age, Lavina Morehead, Mun
- Merrill, Hubbard & Co., booksellers and station ington street; best one hundred figures or girl from 12 to 16 years of age, Juli apolis, six volumes Bancroft's History States, worth
- J. A. McKenzie, clothing, 88 W. Washington a business letter, written to J. A. McKer a boy under 16 years of age, Sammy Indianapolis, suit of clothes, worth
- "When Clothing" store, 34 to 42 N. Pennsylva.
 boy under 14 years of age, for sawi.
 fastest and best, one hour contest, or
 8 or more to compete, Charlie Brow
 suit of clothes, worth
- Mrs. Dietrich & Walker, millinery and fancy goington street; patching on pants, by gir of age, Nellie Brown, Indianapolis, h
- Johnson Bros., stove dealers and tinware goods, ton street; darning on stockings, by years of age, Winnie Wiles, Indianapo worth
- H. Leiber & Co., art emporium, 82 E. Washing tille painting, by a girl under 14 year Hendricks, Indianapolis, picture, wort

MIUM AWARDS.

and furs, 76 E. Washington stre 1 under years of age, Chas. Thurk

.

e, 30 to 34 South Illinois street; a girl under 15 years of age, Man olis, hearth rug, worth . . . dd Fellows' Block; penmanship b s of age, Mamie Stowell, Indianapo

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IBERAL OFFER.

et house, Indianapolis, donated a gl Morton Monument to be on exhib l the following premiums, in gold

iss Mattie Stewart, Indianapolis, .lk, china and wood, Miss Sue Ket

Marvel, Royalton, Boone county, n Indianapolis Public Schools, M napolis, l under 15 years of age, Susie M. l

ATURAL HISTORY, ETC

Collett, Superintendent.

CLASS XLVI.

8, Dr. Jas. Knapp, Louisville, Ky., L. Greene, New Albany, . . . rals, G. K. Greene, New Albany, D ers' relics, R. S. Robinson, Ft. Way and animals, Mrs. M. M. Dunc

Collection nocturnal lepidoptera, Ralph Perry, India
Collection of insects, Purdue University, Lafayette,
Second premium, Wm. J. Chambers, Kent, .
Collection of botanical specimens, S. J. Taylor, In
apolis,
Collection of coins and medals, Louis Woerner, In apolis,
Collection of living birds, Mrs. Jennie Howard, Ande
COMMITTEE-A. W. Brayton, Indianapolis,
Freene, New Albany, Ind.

CLASS XLVII.

Block coal, Cobb & Branham, Indianapolis,				
laking coal, A. B. Meyer, Indianapolis,				
lannel coal, Cobb & Branham, Indianapolis,	ř			•
loke, Cobb & Branham, Indianapolis, .	-			
Mag stone, I. D. & S. R. R., Indianapolis, .				
collection and variety of coal from any one	C (oùn	ity	ij
Cobb & Branham, Indianapolis, .				4

COMMITTEE-A. W. Brayton, John Hurty, (

REPORT

OF THE

FIRST DIVISION OF THE

ee on the Special Merits

OF

UNPREMIUMED ARTICLES,

ED AT THE STATE FAIR-1880,

RACING SECTIONS "A" AND "B."

STATIONARY ENGINES.

we Works of Indianapolis, Ind., exhibited a Corliss, the cylinder having 12 inches bore by 86 inches ated at 50-horse power. Steam is admitted divider to the cylinder without obstruction. The by ridget gear from the main shaft. Both ected by the governor-shaft, to work the induction a, so as to cut off the steam automatically. The nost modern design and of excellent workmanrit one of the best cut-off engines used at the same firm had also on exhibition one stationary bore by 20 inches stroke; one stationary engine, 14 inches stroke; and one stationary engine, 8 inches stroke, all of modern design and excellent inship.

Indianapolis, Ind., exhibited one 1-horse power with locomotive slide and cross-head and direct e same is neatly finished.

· Clayton Petts, Indianapolis, Ind., exhibited on stationary engine of modern design and very high upright boiler, 24 inches diameter and 60 inches hi 21-inch flues, with steam feed pumps attached. T apprentice, only 18 years of age and has all the w foot-power.

PORTABLE, THRESHING AND TRACTION 1

J. I. Case, Treshing Machine Co., Racine, Wis., one traction engine with wrought iron driving wlameter and 8 inches face. Square gear traction arrangement. It has a reversible link motion, independent steam pump. It travels from four hour and weighs 7,000 pounds.

Atlas Engine Works, Indianapolis, Ind., exhibi engine. It has a reversible link motion and differ runs forward and backward and turns with ease and can be furnished with self-steering attachment power to draw water-tank and separator upor driving wheels are 48 inches diameter and 12 i engine is simple in construction, durable and easi one 10-horse power threshing traction engine, w iron, 48 inches diameter and 6 inches face. The en by chain. One 10-horse power traction engine, inches diameter and 8 inches face. Also one 10-hor engine. This engine is placed on top of boiler, with is very simple and durable. The boiler is cased in ' and lined inside with fire brick, which makes it a and adaptable for plantation purposes. They square portable engines of 12-horse power each, v ting the shafting in power hall and running a lot construction and workmanship are the same as the portable. Also a 10-horse power square engine li 10-horse power portable threshing engine with sta tached and of excellent workmanship.

M. & J. Rumly, Laporte, Ind., exhibited on portable threshing engine, with locomotive slid The main shaft is of Swedish iron. It has a spark of a very superior construction. The engine is p and in every respect fitted up in a workmanlike also exhibited one 8-horse power portable threshwrought and cast iron wheels.

Nichols, Shepard & Co., Battle Creek, Michigan, exhibited one 10-horse power portable threshing engine, with locomotive slide, gun metal boxes without Babbit metal, steel connection rod and main shaft. The force pump is of superior workmanship and construction. The boiler is at top, and throat sheet double riveted, also the shell. The fire box is thirty-six inches long. The same firm exhibited also one traction engine, which is driven by compound spur gear. The driving wheels are forty-eight inches in diameter and eight inches face. It is of the same manufacture as the above mentioned engine. The fire box is thirty-six inches long, twenty-two inches wide and thirty-four inches high. The size of waist is twenty-seven inches. The boiler has double wrought iron doors. It has thirty-five flues of two-inch diameter and sixty-six inches long. The flue sheet is of double thickness and copper ferruled. It has a superior hot water feed pump.

Eagle Machine Works, Indianapolis, Ind., exhibited one 10-horse power traction threshing engine. The driving wheels are 5 feet in diameter by 6 inches face, and are driven by compound bevel and spur gearing. It has locomotive slide and cross-head. Also, one 12-horse power portable engine for pony saw-mill purposes.

Chandler & Taylor, Phoenix Foundry, Indianapolis, Ind., exhibited one 10-horse power portable engine. The bed-plate is of modern design. The valve is moved direct from the main shaft. The heater is placed in front part, under the waist of the boiler, and is easy of access. It has also a super-heater in the back part of the smoke-box. The engine is durable and simple in its construction.

Scioto Machine Works, Circleville, Ohio, exhibited, by A. B. Dumm, one 10-horse power portable threshing engine, which was operating a plantation saw-mill. The fire-box is of open grate surface, and the boiler of superior workmanship. The length of the boiler over all is 9 feet; diameter of shell, 2 feet 4 inches; length of fire-box, 2 feet 4 inches; width of fire-box, 2 feet; height of fire-box, 2 feet 1 inch; 26x2} inch boiler tubes, 5 feet long; square feet of heating surface, 91½ feet; 7 by 12 inches cylinder, erected on a cast-iron semi-cylindrical bed-plate, having four lateral attachments to the boiler. The feed-water is lifted by the pump attached to the cylinder and driven from the cross-head and forced through a suitably arranged pipe, which passes through the bed-plate to the check valve, and thence into the boiler. The exhaust steam passes from the cylinder into the bed-plate and out into the smoke chimney, heating the feed-water before it is forced into the boiler, as well as also answering the double purpose of extinguishing the sparks of fire as they enter the smoke-box. The pillar block is on the rear

end of bed-plate. The driving shaft passes over boiler, just in front of the smoke chimney. The pumps and check valve joints are made metal to steam tight. It has steel piston and pump rods. All in brass or Babbit metal.

- E. M. Burdsall & Co., Penn Yan, N. Y., exhibite power portable threshing engine. It has a camel-baside seams are double riveted, and has a steam super
- C. Krantz, Evansville, Ind., exhibited one 10-horse portable threshing engine, made after the Latta ste style. The engine needs no staking down and a solid. The engine is attached to the boiler in a verlow the grate-bar is a regulating damper to shut off draft of the boiler at will.

Robinson Machine Works, Richmond, Ind., exhibit power, portable threshing engine, with locomotive head. The engine is substantially built and of simp The boiler is of good workmanship, with large dome ple dry steam for the engine.

Gaar, Scott & Co., Richmond, Ind., exhibited one threshing, traction engine, with locomotive slide. The driving-wheels are 5 feet in diameter and 6 is made of cast and wrought iron. They are driver straight compound gearing, the "Judson" govern Both engine and boiler are of superior workmans exhibited, by James V. Moulton, one 6-horse poweringer, which gave motion to a lot of farming movements. It is a plain and service threships to the straight company's hall. It is a plain and service threships the company's hall. It is a plain and service threships the company's hall.

C. Aultman & Co., Canton, Ohio, exhibited one traction threshing engine, the driving-wheels being a 48 inches diameter and 8 inches face. It has a complevel gearing, with friction wheel, handled by a so wheel, and can be stopped at once in case of any degine is driven by chain instead of ridget gearing. I of modern design, and the "Pickering" governor is upright boiler, mounted on iron axles and supports

Huber Manufacturing Co., Marion, Ohio, exhibited power portable threshing engine. The wheels are cast iron. It is a vertical engine of a new design. fire-box with returned flues on top. The feed water space on the end of the smoke head.

MERITS OF EXHIBITS.

ks, Belleville, Illinois, exhibited one 10 ag engine. It has wrought and cas g rod is made of steel, and the cros The boiler is of circulating bottom.

m, Ohio, exhibited one 12-horse power adapted for general use in farming, and cast iron. It has locomotive slice type construction and good workmand. The boiler is of circulating bottom

he main feature of this engine is its angement of reversing the same, as the ed. The driver has full control frought the engine. The wheels are 54 as face. It has locomotive slide and afterential gearing, and is of superior

estern Machine Works, Indianapilis, In wer portable engine, which was ope per Hall. It gave motion to fourtee ration. The engine is of modern outtion. It has locomotive slide and rel-back, which affords a greater num ting surface. It has a square fire-bo

e, Springfield, Ohio, exhibited one 8 gine, with locomotive slide and cross the connecting rod without straps or a design and excellent workmanship.

ay, Watertown, N. Y., exhibited by ad., one 10-horse power portable three of boiler, with cast steel center crank hed on both sides of the machine, so of the separator. It is mounted with evernor. It has locomotive slide and modern construction, strong and dust workmanship, and has two flues. power engine of the same pattern.

BOARD OF AGRICULTURE.

BTEAM PUMP.

R. Rouse, Indianapolis, Ind., exhibited one), with a 5 inch steam and a 34 inch water cylin sing water out of a 4 inch driven well, supplying on and farm engines. He also had on exhibi n well points. The point is constructed in su event gravel or quick sand to be raised by the part of the point is of malleable iron, and v uter circumference is lined with fine brass wir s, is a brass tube, well perforated, so as to prev by driving it down into the ground. He al th boiler and steam engine, on cast iron bas i pump. The engine is very simple and dural : Orvis Smoke Consuming and Fuel Saving Com exhibited by John N. Roy, one smoke consume s smoke consumer is, that by a proper combin ir being admitted to the furnace, combustion consume all of those properties which now esc oke. The device consists of a half-inch pipe k of a boiler and passing down at the right of t across, just over the furnace doors. From this perpendicular pipes of the same size extend . e furnace, each connecting with a brass globe namber; connected with this air chamber as , extending down and open below, which serve the outside into this chamber, where, commi i, they are forced through other pipes into the the surface of the coal; this impouring current ch larger amount of oxygen to aid in the cor i being taken from the dome, is the dryest and tity used is regulated by a thumb screw in the dome. To still further aid in combustic aft is east in each furnace door, by which a cur rected through a series of conically shaped t he furnace and over the fire at any desired a le, be wholly cut off. This direct draft acts as . ovement in furnace doors is, perhaps, the mo een recently made. This principle of surfac brilliant fire and intensified heat; it creates ; instead of allowing any of the heating qualitie e in unconsumed gas or smoke.

SPECIAL MERITS OF EXHIBITS.

WIND ENGINES.

May Bros., Galesburg, Ill., exhibited one wind engine o construction. The pumping being worked directly by th shaft. The engine is under perfect control of a weight, w be very easily increased or diminished. Its principle feat simplicity and durability.

The Iron Turbine Wind Engine, Manufactured by Mast, Fi Springfield, Ohio, exhibited a turbine wind engine, which structed entirly of iron. The wheel and vanes being mad 24 sheet iron, well bound and braced with wrought bar iro well put together that it is impossible for the wind to to pieces or injure it in any way. The wheel being constructs turbine principle causes it to give more power than any oth of the same diameter, and as there is no wood about it shrink, rattle and be torn to pieces by the wind, it is mudurable. It weighs no more than the ordinary wood whee

Stover's Improved Wind Engine, Manufactured by B. S. Wi Co., Kalamazoo, Mich., had on exhibition one wind engine construction and being strong and durable. The whole creating on a pedestal which is provided with chilled cast-in so as to obviate all friction which would be sustained of The vane is provided with a lever, which, when thrown our causes a spring clutch to act on the crank-wheel of the puthereby stops its motion instantly.

Iron Duke Wind Mill, Manufactured by O. S. Gilbert & Co, apolis, Ind., exhibited one wind engine, which is entirestructed of wrought and cast iron. The wheel is so constito give the greatest amount of wind surface and constructed power. The pump is worked by a crank and beam, which enables the operator to lengthen or shorten the of the pump. The vane is so adjusted that when closed the ber ball with spring will bear solid on a rim of the whee will stop its movement.

Defiance Wind Engine, Manufactured by H. A. Bowman & anapolis, Ind., exhibited one wind engine. The deflector engine is perfectly automatic. It is regulated by a varying ance weight. The wheel is solid; it has not a joint or loose the rudder being in an exact right angle line back from the wind, as it passes, strikes both sides of the rudder we force, and thus steers the wheel steadily against the wirengine is simple and durable.

Perkins' Self-regulating Wind Engine, Mishawak one wind engine. It has only two points of fri main shaft on which the wheel is fastened, and the All the boxes are in two parts, so as to be adjust and are well babbited. There is a box on each sid The wheel sits on one side of the turn-table, so too hard it will control the motion, and even stop also a rotary attachment, for running small mac stones, corn-shellers, etc.

Improved U. S. Star Wind Mill, Manufactured by O Delaware, Wis., exhibited one wind engine, the which is that it is perfectly safe-governing. It has on the wheel, which prevents it from running who order to keep the pump from freezing. The san also a single acting force pump with solid cast plu recesses, so if the leather should be worn out, a pump from drawing water.

The Eclipse Wind Mill, Manufactured at Beloit, Wis Fairbanks & Co., Indianapolis, Ind. The working pa are of wrought and malleable iron, and therefore and durable. The firm has the only right to use the purpose to regulate it.

The Buckeye Wind Engine, Manufactured at Spr Exhibited by Merrifield, Indianapolis, Ind., one wind a tirely of iron, and its main features are simplicit They also exhibited a double-acting force pump wit cylinder, without packing or stuffing box.

Springfield, Ohio, had on exhibition one wind engine on the turn-table plan. The wheel is balanced on the arm, which gets down into a sleeve. The arm chilled and several washers, which are case-harden bottom of the box to overcome friction. The turn-with four friction wheels to take the side weight. The rubber springs will take off the jar in stor wire is running down to the ground for any one present, even if it was a child, to stop it. The of hickory wood; this makes it more sightly, and with oil will not heat as quick as metal boxes, runs in a long, babbited box sixteen inches long, oiled it will last a long time.

Eureka Wind Mill Company, Indianapolis, Ind., exhibited one of their celebrated wind engines. Its construction is simple, having only three wearing joints. It has a small turn-table and is therefore more easily adjusted to the wind and less apt to get out of order by storms. It moves steady and without noise. It can be set to run slow or fast, and by pulling a check cord the wheel is turned edgewise to the wind and the motion is entirely stopped. It will run any pump and can be arranged to stop after pumping a certain amount of water, or can attach a return pipe to conduct the surplus water back to the well.

SAW MILLS.

Scioto Machine Works, Circleville, Ohio, Exhibited by A. B. Dumm, one circular plantation saw mill. The peculiarities of this mill are: it has a friction feed under perfect control of the sawyer; also, simultaneous and independent lever set head blocks, which are operated by the sawyer. The carriage runs on truck axles running across the carriage, with nine inch wheels, on which the carriage moves forward and backward. There is also connected with the mill, a sawdust carrier, of ingenious and complete workmanship, and does its work in the most satisfactory manner. One of the advantages of this mill is, lightness combined with strength. The saw, mandril and feed shafts work in pivoted boxes, swung in iron housings. The mill is operated by three men. It was admired by the vast number of visitors, without exception.

Eagle Machine Works Indianapolis, Ind., exhibited one pony circular saw mill, of superior workmanship. It is built strong and neat; has a large cast iron bearing outside of the frame to sustain the stress of the belt. It is operated by friction feed. The carriage is well proportioned to suit the balance of the machinery. The head blocks are the "Miner" patent. It is considered by all who use it, a good block. The mill is operated by three men.

Sinker, Davis & Co., Western Machine Works, Indianapolis, Ind., had on exhibition a pony saw mill, with Sinker, Davis & Co.'s patent lever set head blocks. It is modern in design, of good workmanship and finish. The frame and carriage are well put together, made strong and durable. It will cut, with the aid of four men to operate it, from four to five thousand feet in ten hours.

Chandler & Taylor, Phænix Machine Works, Indianapolis, Ind., exhibited one mulay saw mill. Its frame is made entirely of cast iron. The machinery, as crank shaft, feed shaft, etc., are neatly fitted and worked in pivoted boxes. Under the carriage, are wrought iron

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ch are fitted seven and a half i the carriage forward and backwortioned, and the attachment, te saw, are of lever ratchet set. and, with notches in it, in whint the feed rig from being oper sped without the sawyer is pres

BAW-MILL HEAD BLOCKS

proved Patent Head Block with A clas Engine Works. Exhibited by r-mill head blocks, with friction ck of the knee is made segme is operated by the lever, works it to any size of log.

o , Indianapolis, Ind , exhibited ompound lever-set head blocks Zachech is the inventor. read blocks are the construction ple and accurate. There being le, all that is required to adjuset movement, in order to bring for another log. They are acc very rigid. The knees are set u d nine-sixteenths in diameter, a ead blocks take in fifty-one inc important consideration in sai brings the knees up to the g made extra heavy in order dling long and heavy logs. The ng gun-metal sleeve boxes, chi I box is cast a round boss, two: nicely twined to fit the recess lace; this avoids the breaking ickly against the knee. The h dth of carriage, and, if desired e in order to save time in get! k is done very accurately, all t and well finished.

threshers and separato chine Works, Belleville, Ill., exhil ibrating pattern. The princips ers or its top separation. The extreme width and length, diverging in width from the cylinder back, gives it a large separating capacity. The fan-mill is of unusual size and width, giving all the blast necessary to do good cleaning; also the patent cross frame, in front, under the separator, enables the driver to turn short without locking the wheels.

J. C. Hoover, Mannfacturer of Monarch Engines and Threshers, Hamilton, Ohio, exhibited one thresher of the vibrator pattern. It has a wind deflector in front of the riddle, so as to change the wind at will, to suit all kinds of grain. It has an endless chain in back of the vibrating floor, so if any grain should be lodged in the straw to bring it back on the bottom of the chain on a tight floor into the tailing spout. It also has a beater placed in the rear end of the cylinder to keep the wheat from flying forward and evenly divide the straw on the vibrating floor. It has an end shake shoe, which is moved quickly back and forward, so as to separate the wheat from the chaff in a most complete way. The riddle is peculiarly adapted for the operating of that kind of a shoe, which insures perfect cleaning.

Russell & Co., Massillon, Ohio, exhibited on thresher and separator with canvas apron, "Pitts" patent, with under and over shot blast. It is of very fine finish and workmanship; also one thresher and separator. It has all the gearing inside of the main frame, except on the conveyor and the fan. They use cast arches in front of the frame in order to pass the front wheels under the thresher, so as to make a short and quick turn. One good feature is a shaft placed on top of the vibrating frame, which has a series of picking fingers to agitate and lift the straw from the vibrating floor in its forward movement. It has also a beater placed in rear of cylinder, to knock and loosen the grain from the heads. The machine is of superior workmanship and finish.

The Huber Manufacturing Company, Marion, Ohio, exhibited one thresher and separator. Its cylinder is supported in an independent frame and so arranged as to take in grain freely without dusting the feeder or choking the cylinder; the concave is supplemented by a series of open grain grates, which extend from the concave to the beater and which assists in the process of separation. The beater is one of the features of this machine; it runs in an opposite direction to the cylinder and at a different rate of speed, so that all straw and grain is arrested at this point and the separation begun. The beater, by the blow which it gives the straw on the under side, delivers the grain on the angles of the blades of beater, being always kept under the straw and thrown down to the shoe and

vibrating separator. The chaffing devise is anot construction it is a slatted frame, extending fro shoe to near the back of the riddles and receives and littering that comes from the carriers, and motion distributes the grain evenly over the riddle chaff and straw over to the stacker. The fan-mill I fan, provided with patent blast regulators. The eleheadings up a gradual incline and empties directly der. The wagon is so arranged as to turn the fron under the separator.

Eagle Machine Works, Indianapolis, Ind., exhibited separator. The principal feature is its simplicity. The straw is carried forward by four oscillating slastraw is agitated by two sets of rakes to shake a grain from the straw as it passes along on top of lating floors. The machine has a very large riddle the grain ample time to separate itself from the ch

The Robinson Machine Works, Richmond, Ind, exhibit and separator. It has a large separating surface floor. The straw is agitated and brought forward which are suspended above the vibrating floor. operated by two crank shafts of from eighteen to throw. The extension of the grain floor is a contopen floor, made out of straight wires, so as to prostraw and chaff from going on the riddles. It als floor on the end of straw stacker, which is to carrowhich might be drawn over by the fan.

The Combination Grain Separator, Manufactured by turing Company, Buttle Creek, Mich., exhibited one t arator. The vibrator carries the straw in bunche one picker and open slot-rattling chain it is carridistributed screen. The machine is very simple Something novel in this machine is a combined cy comb, which prevents all back lashing and was round the cylinder. The stacker is easily adjusted the top of the machine while moving. With the long elevator it empties the chaffing and grain with in front of the feed board.

C. Aultman & Co., Canton, Ohio, had on exhibiti and separator. The peculiarity of this machine short, open slot-chain to carry off the straw imm goes through the cylinder. Above the chain are ty tate the straw so the grain will drop on to the chain. After the straw leaves the chain it is carried along on three beaters, which will shake up the straw and distribute it evenly on the vibrating floor. The vibrating floor is of upward and downward movement. It has a very large riddle surface. The shoe is extended quite a piece on the straw stacker, with a solid floor, which opens towards the tailing spout, which prevents grain from being carried on to the straw stacker. The tailing spout has this peculiarity, that a part of the floor is perforated, so as to admit grain which is already free from chaff and heads to fall through back of the cylinder, so that it will not be broken or picked by the force of the cylinder teeth. It is a smooth and easy running machine.

Gaar, Scott & Co., Richmond, Ind., exhibited one thresher and separator. The frame of this machine is built in a very substantial manner, and is so constructed that the front wheels will turn readily beneath the sills. The whole machine widens out from the cylinder back to the rear end. This provides for the safe and easy passage of the straw, and admits a much wider shoe and riddles. A peculiar feature of this thresher consists in placing immediately behind the cylinder, a rotary deflector or beater, which receives the dash of the grain from the cylinder and turns it downward on to the separating pan, and prevents the grain from being thrown, by the force of the cylinder, forward into the straw. This beater adds greatly to a perfect separation of the grain from the straw. Another feature, is the elevator, which is so constructed that the tailings are discharged into the cylinder through a short stationary spout. Another advantage, is its manner of attaching and transporting the straw stacker. They use a folding stacker, raised and lowered by rope and windlass, with wind protector and side canvas. sections of the stacker are connected together by pivot hinges. When extended for use, the stacker is held in position by the ropes, and when folded for moving, the rear section is folded back and rests on the top of the thresher. With one man at the windlass, the stacker can be raised or lowered,

Birasell Manufacturing Company, South Bend, Ind., exhibited one separator and thresher called "Monitor Junior." This machine is threshing the clover from the straw. The bolts separate the straw from the chaff and seed. After falling through the bolts it is caught by the vibrating table, which is directly under the bolts, and carried back by the rising and falling of the table to the hulling cylinder and its concave, and is hulled by said cylinder and carried by a belt to the fanning mill, where the chaff is separated from the

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seed, and tailings from the mill are carried, by an elevator, back to be rehulled and fanned.

Seymour, Sabin & Co., Stillwater, Minn., exhibited by Tyner & Hadley, Indianapolis, Ind., one vibrating thresher and separator, which is called "Minnesota Chief." One main point of this thresher is that it regulates the grate back of concave at will, so as to prevent the cracking of grain. This grate being an open one, it affords to separate the wheat from the straw immediately after leaving the concave. The straw is agitated by a slack apron in an up and forward motion. The wind of the fan is easily adjusted by a wind-divider, which causes the wind to be brought to bear up or down the riddle. ·A countershaft is placed in front of the feed board, carrying the under side of the main belt from the engine, thereby giving a slow motion to the belt to balance the machine from allowing the cylinder to run free and without attachment of other belts. The entire machine is operated by four belts. The concave is raised and lowered by an effective and simple arrangement under the feed board, easier to access, and can be adjusted while the machine is in motion.

M. & J. Rumly, Laporte, Ind., exhibited one grain separator and thresher, with short canvas apron of the Pitts' pattern. The machine is made durable, and is simple in construction. It separates the grain from the straw in a most complete manner. The shaking of the shoe is variable, suiting any kind and condition of grain, with the aid of a cone shake attachment. The principle feature of this machine is, that the straw is delivered from the canvas grain carrier, to a long, endless, opened slotted chain; this causes the separation of the grain from the straw in a most perfect manner.

Chandler & Taylor, Phænix Machine Works, Indianapolis, Ind., exhibited one thresher and separator. The fan is directly placed in front under the feed board, by which the separator is shortened to a great extent. The wind of the fan is regulated precisely the same on both sides, so that it will not admit more wind on one side than on the other. By these means, the wind is equally divided on the riddles. It can be operated from either side of the machine. The measuring of grain is quickly changed from one side to the other. On bottom of the straw chain, is a concave-like attachment. If any grain should blow over the riddles, the under part of the chain will carry it back into the elevator. There is another good feature in this machine, by replacing of the riddles to thresh either oats or wheat by opening a small door on the side of separator. The riddle is readily adjusted by a small crank shaft, so as to raise or lower

it quickly, if there should be any tendency to choking. The straw is carried forward by agitating rakes, which are worked by an eccentric shaft.

- C. H. Brookbank, Connersville, Ind., exhibited an agitating thresher and separator. The main features of it are an endless chain with riveted rakes, agitating the straw loosely on the under side of its forward movement, and is also capable of an instantaneous adjustment of any degree of agitation required for any kind of grain. A deflector being placed immediately in rear of the concave it brings in an upward direction, allowing the grain and chaff to pass through said deflector to an immediate separation. Another main feature is the manner in driving the main belt on the separator, which operates all the machinery in the separation. The under side of the main driving belt passes over a large pulley, which is placed below the pulley which drives the cylinder from six to eight inches forward, in order to create sufficient friction to run all the machinery required.
- J. I. Case & Co., Racine, Wis., exhibited one vibrator thresher. One principal feature in this thresher is the placing of the concave so that it admits the straw and grain down to the vibrating floor, instead of throwing it forward on the floor. This prevents the grain from being carried along with the straw. By this means a better separating of the grain is accomplished. The grain is more readily brought to the feed board, on account of its construction. There is also a feeder placed back of the cylinder, which brings at once the straw down to the vibrating floor. The vibrating floor is so arranged that the grain floor counterbalances the straw floor. The straw conveyer is so constructed as to carry the straw forward and upward to the straw stacker. This will give the grain a perfect separation from the straw. The grain conveyer is perforated over the shoe, carrying off all long obstructions on the straw stacker, instead of bringing it down to the grain riddles. The shoe is of very short and quick shake movement, which enables the chaft to be quickly separated from the grain. Another feature of this thresher is the attachment of the Eclipse elevator; no matter if the grain and chaff is dry or wet, it never chokes. It also has a greater width of separating surface in proportion to the threshing cylinder. The cylinder is 32 inches. The width of separating surface is 46 inches.

Nichols, Shepard & Co., Battle Creek, Mich., exhibited one thresher and separator called the "Vibrator." The separating portion of this machine is made in the form of a long box, decked over at the top and open at the rear end and divided into three sections. The

upper section is stationary, and forms the straw space. Below this are two movable sections or troughs, each about six inches deepfitting into each other, the upper one having a bottom formed of transverse wooden slats, with spaces between to permit the grain to fall into the lower section. Just above this open slat-work are placed several sets of finger-bars with long, projecting fingers in each. These fingers reach from one bar to the other, nearly the entire length of the separator. To one end of each finger is attached an upright arm, the upper ends of which are connected with the stationary frame of the machinery by means of leather straps which regulate the lift, or upward throw of the fingers. lower section has a tight floor to hold the grain after it is separated from the straw and falls through the slatted floor. It also projects under the concave and grates to receive the threshed grain which passes through them. The rear end projects partly over the sieves, and is perforated so that the grain falls through in a shower, and is evenly distributed upon the sieve. The middle and lower sections are both suspended on swing rods, and are made to vibrate or swing backward and forward by means of the crank shaft and connecting bars. These vibrating sections move in opposite directions, and thus counterbalance each other, so that the machine stands perfectly still, without blocking or bracing. The machine being in motion, the two sections are vibrated backward and forward, and communicate an uplift motion to the shaker, which works the straw gradually to the rear. The straw, as it leaves the threshing cylinder, is deflected or turned down at once to the agitating fingers by the circular deck. The first rank of fingers toss up the straw with rapid blows, and passes on to the next, where the same process is repeated, only with more of an uplift movement, and so on over the six successive ranks of agitating fingers, until the straw passes from the machine. Meantime, a large share of the grain goes through the concave and grating, and falls into the lower section without passing into the straw at all. The grain is thoroughly shaken out in its passage over the agitating fingers, and sifts through the open slat-work into the lower section, which conveys it to the fan mill. They also had on exhibition a set of concaves, with corrugated teeth inserted. The "Vibrator" thresher is easily changed from a thresher into a clover huller.

Hagerstown Agricultural Implement Manufacturing Co., Hagerstown, Maryland; Exhibited by Tyner & Hadley, Indianapolis, Ind., one clover huller called "Victor." The chief point in this huller is, that it feeds the clover under the cylinder; this threshes the seed clean off of the straw and hulls it partly; the rakers separate the heads from the straw and carries the unhulled seeds back to the

lower cylinder, which hulls all the tougher seeds without breaking any seed. The suction fan cleans the seed as it goes to the measure. The tailings are carried up by elevator to the upper cylinder.

Whiting & Shearer, Manufacturers of the Ashland Clover Hulling Machines, Ashland, Ohio, exhibited one clover huller, called the "Ashland Huller." Its upper hulling cylinder is open barred with wrought iron spikes and undershot feed; it has a low feed board, from six to fifteen inches; the low position of the cylinder prevents any danger of top heaviness; the lower hulling cylinder has a steel nailed surface, which does its work perfectly. It allows the separator to be more open, there being no danger of clogging, and prevents the seed from passing out with the straw. The cylinders are both driven by the main drive-belt, or by one gear wheel. It has an open web, with slats two inches apart, which allows all the heads to pass through and the pickers to carry the straw over, to stir it up continually, and entirely prevent bunching. The sieves are six feet long—double the entire length. The upper sieve, having offsets, possesses the double advantage of having a larger space for the wind close to the cylinder, and of shaking and turning over the chaff as it passes along the riddles. There is no need to stake or brace the machine to hold it in position. The machine can be easy changed from gear to belt and also by a simple change of pinions, the speed, or the motion reversed. It is a simple construction and durable.

American Grinding Mill Company, Chicago, Ill., exhibited by A. C. Hamilton, Indianapolis, Ind. This feed mill is horizontally mounted on a cast iron frame. The hopper is securely attached by a five-eighth inch iron rod to the frame. The burrs are made of chilled cast iron. It is warranted to grind eighty bushels an hour. It is of new design and simple in its construction. The inner burr is fast-ened with a wooden pin, which goes through the hub and shaft. If at any time any hard substance, like nails or gravel, should be fed, the wooden pin will twist off and save the burr from being cut or broke. This mill can be either operated by steam or horse power.

BRICK AND TILE MACHINES.

Tiffany's Brick and Tile Machine, Manufactured by Frey, Scheckler & Hoover, Bucyrus, Ohio, exhibited one brick and tile machine, whose main principle is that it has two shafts, one inside of the other. The main, or outside shaft, has the mixing knives and the main propeller, while the inside shaft is running in an opposite direction at six times the speed of the main shaft. By means of a smaller propeller it forces the clay through the dies for either brick or tile.

from two inches to eighteen inches diameter. By means of this opposite running shafts the clay is entirely mixed and laminations prevented. The machine is simply and strongly built. The mixing shaft running a slow speed, the machine is enabled to run with much less power than otherwise.

Chandler & Taylor, Phænix Machine Works, Indianapolis, Ind., exhibited one drain tile machine. This machine is very simple in its construction. It is made very strong and works quickly, and is very easily operated. It only requires from two to three horse power to operate it successfully.

The Adrian Brick and Tile Machine Manufacturing Company, Exhibited by J. S. Knapp. It is a horizontal machine, with one set of gearing, which grinds, tempers and pushes the clay through the dies in a horizontal way. By the way of dies, it makes any kind of shape. It is simple, strong and cheap. The machine is very easy operated, and the dies are quickly adjusted. There is the same cut off table in use for brick or tiling.

MISCELLANEOUS.

Eagle Machine Works, Indianapolis, Ind., exhibited one improved Woodbury horse power, mounted on wheels, to avoid the handling of this power up and down from the wagon in order to operate it. It is made simple and durable.

P. K. Dederick & Co., Chicago, Ill. and Albany N. Y., exhibited one perpetual baling press, of novel construction.

Riley Bond, Indianapolis, Ind., exhibited one flour and middling purifier combined. It is a flour bolt of new design, and is so constructed as to bolt the flour from the first grind and purifies the middling the same time. The middlings then, after being reground, are bolted again on a different cloth in the same machine. He can bolt whole stock flour and two or three grades at the same time and in the same process. The same machine can be used for a grain grater or purifier. On the same principle, he can kiln dry meal or grain by the same process. The process is an oscilating motion by the bolt. It is very plain and simple in its construction.

Krrick & Co, Indianapolis, Ind, had on exhibition the celebrated Knowles steam pumps and a lot of leather and rubber belting. Also selection of Jet pumps and a case of fine engine supplies.

Nordyke, Marmon & Co., Quaker City Iron Works, Indianapolis, Ind., exhibited various kinds of shellers, cleaners, etc. They also exhibited H. A. Barnard's warehouse wheat separator. A large selection of mill supplies, such as French mill burrs, corn mills, polished

shafting couplings, hangers, pullies of new design; also a fine lot of belting and burr casings, one diamond mill stone dressing machine, various kinds of mill stone spindle steps, S. M. Braden's wheat heater, Ligonier, Ind. This heater consists of a series of coils, which are encased in copper; the coil is heated by steam and the wheat, in passing over this heated coil, is ready for grinding. Also one fine case full of different kinds of bolting cloth and millers supplies, mill picks and elevator cups, elevator gudgeons and stands.

Sinker, Davis & Co., Western Machine Works, Indianapolis, Ind., exhibited a lot of "Bellis" governors, also stop-valves, hangers, pullies, couplings and saw harbors, also a selection of French mill burrs, one 36-inch iron husk mill, upper runner, with French burr of new design, also a 24-inch mill, under runner, of new design; one 4-reel bolting chest on which you can get at any part of it and see the workings of the bolts. Also one new design of reel head, which is so constructed that it does not require any boxes or spouts. It delivers all the products from the outside and takes the feed from the elevator also from the outside. The products of the reel can be examined separately on the outside of the chest. Either side of the chest can be used alternately. They also have a new design of proof staff, warranted to be perfect under any atmosphere, and a grain elevator with distributing spout of new design. Also a Dolman purifier which will operate on six different grades. It has six different air passages which operate separately, so as to distribute the air as the middlings of different grades require.

- John P. Wood, Indianapolis, Indiana, exhibited a flour sack machine which takes the paper from the roll, pastes it while it goes to the cutter and cuts any size desired. This is the only flour sack manufactory in the State. Also one printing press, which prints as many colors as desired at one impression, and also two stapling machines to staple the butter dishes.
- J. A. Dynes, Indianapolis, Indiana, exhibited four hand printing presses of different design. Print all kinds of cards and do any kind of little job work.

Merrill's Improved Water Purifying Air Valve Chain Pump, Exhibited by Merrill, Indianapolis, Ind. It is an improvement over all the chain pumps, and is easily worked; does not get out of order and is not liable to freezing. It will purify any well or cistern water in less than one week.

Howard's Adjustible Legs for Step Ladders. This is a very ingenious device for lengthening or lowering the ladder to accommodate itself to the work to be done. It is perfectly safe by getting up to the last step on top of the ladder.

To the Honorable Members of the State Board of Agriculture of Indiana:

Your Committee on the Special Merits of Sections "A" and "B" wish to express their desire in recommending a practical test of traction engines at the coming State Fair. It can be easily accomplished, with a small outlay of money, by erecting a strong frame. from eighteen to twenty feet high, well stayed. On top of said frame would be placed four sheaves, two feet in diameter, to receive a two-inch hemp cable. A sheave of like diameter would be placed on bottom of frame. On one end of the cable will be a platform attached of sufficient size and strength to receive weights of iron or rock; on the other end of the cable should be attached a traction engine, under eighty pounds pressure by a test steam gauge, made for that purpose. At the test of each engine, the size of cylinder and number of square feet of heating surface, also number of the raced and weight of engine should be recorded by the committee in charge. This would give all men who use, or wish to use, that class of engines, a clear idea of its traction power. If this would be made known to all engine builders, a greater number of engines would be sent to our next fair, and would draw a much greater number of visitors. It would be very interesting to men who use traction or common farm engines.

We also submit to your consideration another feature of importance; that is to furnish all exhibitors of steam power, with fuel. It will be a small outlay to the State Board, but a great annoyance to users of steam power would be done away with. Most of these men are from abroad and not acquainted with any body. Your committee has aided and done all in their power to overcome the existing difficulties at this last exhibition.

Hoping the above will meet your approbation, we respectfully submit this report to your consideration.

GUSTAVUS ZSCHECH,
GUSTAV BOHN,
Committee.

REPORT OF THE SECOND DIVISION

OF THE

COMMITTEE ON SPECIAL MERITS,

Upon Articles Entered in Books "C" and "D."

Your special committee having charge of books "C and D" at the State Fair of 1880, would respectfully submit the following report:

The exhibit included in the above books is especially fine. A few articles enumerated, were not found on exhibition.

In our descriptions we use the letter of the book and the number of the entry, that any errors may be traced up and corrected.

W. G. PARKER,
J. W. RAGAN,
Committee.

C. 5.

The Wonderful Churn, Exhibited by the Indiana Churn Company, in various sizes, and in practical operation, producing twelve pounds of butter in ten minutes' time, impressed your committee favorably.

C. 23.

Cornish & Curtis, of Ft. Adkinson, Wis., had on exhibition rectangular and square box churns, in sizes adapted to dairy or family use; also, the Lena and Eureka butter workers and butter color by R. S. White of the same place. This is a creditable exhibition of useful implements.

C. 13.

John Boyd, No. 199 Lake street, Chicago, exhibited the Cooley creamer. This consists in the use of a can which may be submerged in water until the cream rises, after which the milk may be drawn off. This is a useful dairy implement.

C. 7.

The Reich Patent Cylinder Churn, with perforated tion spring; also, egg beater on the same principle, by H. T. Sinks, of Indianapolis. These are desirs for family use.

C. 85.

The Centennial, an Improved Lever Dash Churn, ext Nevitt, LaMong, Hamilton county, Indiana, is sim operation, and we believe worthy of recommendati

C. 1.

Mrs. C. O. Lines, city, exhibited a patent steamer cooking stoves, by which she bakes bread, potatoes, m any article without additional fuel. We regard the acquisition to the kitchen furniture.

C. 14.

Jacob Voegtle, city, had an elegant display of stoves excelled at any previous State Fair. He makes a Favorite cook stoves, manufactured by W. C. Davi nati. This display includes a full line of base-burn stoves, the West Point being prominent. Your con liberty of recommending a diploma of merit to this

C. 4.

R. L. McOuat, city, displayed a full line of heating the Argand and Early Breakfast being specialties.

C. 12.

Wiggins & Donnan, 119 East Washington et., city Crowning Glory and a full line of base burners and

C. 10.

Medsker & Gowly, 64 North Illinois St., city, exhi ment of stoves. The Aladdin is a specialty with the

C. 3.

I. L. Franken, city, had a fine collection of stove Richmond Range, Champion, Monitor, Radiant Ho Cook stove for wood. He also has the vapor gaso and some elegant mantles.

C. 2.

The Garland Heating and Cook Stoves were exhibi Lyons, 76 West Washington street, city.

C. 11.

The Westminster Base Burners, Ranges and Acorn Cook Stoves, were exhibited by Rand & Co., city, assisted by T. J. Bradler, of Albany, New York.

C. 8.

Priest & Clark, 85 Virginia avenue, city, exhibited in operation, the Triumph Clothes Wringer. This wringer has special merit.

C. 4.

Foos & Co., Springfield, Ohio, have a cheap and durable clothes wringer, which we can recommend.

C. 42

R. F. Porch, of Spiceland, Indiana, showed the Humbolt Clothes Washer.

C. 6.

J. L. Gause, of Indianapolis, had in practical operation two sizes of laundry washers. This machine is easy of operation, has a rocking motion, which brings pounders into contact with the goods in such a way as to effectually perform its work without injury to the fabric. We believe this to be a good machine for laundry purposes. He also exhibited a mitre and bevel cutting machine.

C. 28.

J. W. Davis, of Marion county, exhibited the celebrated Muncie Washer. This machine is simple, cheap and easy of operation. It is used in connection with an ordinary wash tub, and performs its work by a compound pressure and rubbing motion.

C. 89.

A Desirable Flour and Meal Chest, an article adapted to every household, was exhibited by John W. Riggs, of Fortville, Ind.

C. 84.

A very beautiful Pyrimidal Stand, containing beer, ale, porter and other malt liquors in variety, all nicely bottled, labeled and arranged, the whole producing a pleasing effect in the Hall, was shown by the manufacturers, William Bachus & Co., 299 West Washington street, Indianapolis.

C. 40.

D. G. Brown, of Dayton, Ohio, showed an extension step-ladder, which we regard as of special merit. It is light and strong and may be extended at will to quite double its usual length.

С. 18 то 21.

John S. Wilson, of Indianapolis, had a variety of convenient and useful fly and insect screens, adapted to doors and windows; also, a kitchen safe made of same material. We commend these articles to neat housekeepers.

C. 30.

A safe and secure Sash and Burglar Proof Lock, sure and steadfast, adapted to any window, was shown by the Yeagley Burglar Proof Sash Lock Co., of Indianapolis.

C. 16.

Sanders & Recker, 103 East Washington street, Indianapolis, made an elegant display of furniture. Their parlor, chamber and dining room sets were especially worthy of note, as also their chairs, lounges, etc., all of which were tastefully arranged, and we consider, worthy of a diploma.

C. 22.

Spiegel & Thoms, city, made a very tastefully arranged display of fine furniture. This display was made in connection with the very elegant display of carpets, wall paper and tapestry, made by Albert Gall, but which does not come under the notice of this committee, being in another book. Considering the effect and beauty of this display, and the elegance of the furniture shown, and the fact that this firm are strictly home manufacturers, we recommend a diploma of merit on this exhibition.

C. 15.

C. Schrader & Bro., 73 East Washington st., city, made a beautiful display of fine china and queensware. It is rare to meet with such good taste as was displayed in the arrangement of this exhibition, consisting of elegant table and chamber sets of fine imported ware, painted and decorated after the latest and most approved designs of art. One set of ware in this exhition was valued at \$200.

China, Glass and Queensware, the exhibit of Mr. J. T. Kinney, No. 54 North Pennsylvania st., Indianapolis, was specially meritorious and elicited on every hand high commendation and praise. The goods were all new and unique in design and decoration, and were decorated expressly for this exhibition at a large cost, the decorations being new combinations in colors and hand painted, on new shapes which had not before appeared on the market. These goods were designed and work executed under his own supervision, on both French and American wares. As a work of art, we may safely say a finer display has never been put on exhibition in any western State, and the effect must be to elevate public taste in art work.

D. 5.

Lewis & Whitehead, city, made a fine display of monumental work, in marble and granite; also, statuary, vases, etc. They also had in their charge the model of the Morton monument, prepared for the exhibition by A. L. Wright & Co., dealers in carpets, etc. This model attracted much attention from the visitors to the fair.

D. 2.

One of the Oldest and Most Fathful Exhibitors at Indiana State Fairs, and which we again found with a large and handsome display, is the manufacturing firm of E. C. Atkins & Co., city, (firm consisting of E. C. Atkins and H. Knippenberg), who displayed a full line of saws, including the celebrated diamond tooth cross-cut, which they make a specialty of. In view of the elegance of this display, together with its intrinsic value, we would respectfully recommend that a diploma of merit be awarded for it.

D. 3.

Specimens of Machine Manufactured Brick, of good quality, from the Quaker brick machine, were exhibited by Fletcher & Thomas, city.

D. 10.

Ewald Over, Founder and Machinist, Indianapolis, exhibited a collection of farm bells, in connection with various farm implements, force pumps, power cider mills, presses, etc.

D. 4.

A collection of Horse Shoes in variety, many of them finished ready for the foot, were shown by G. A. Hardesty & Co., of Indianapolis.

D. 6.

A. B. Meyers & Co., Indianapolis, make a display of coal and coke.

D. 7.

Sedgwick Bros., Richmond Ind., exhibited wire net fencing and gates of various sizes and styles of same material.

REPORT OF THE THIRD DIVISION

OF THE

COMMITTEE ON SPECIAL M

Of Articles Entered in Books "E" and

SECTION L-PLOWS AND CULTIVATORS.

In this section, your committee found a very credital improvement, both in the style and finish of the implies especially true in the departments of sulky breaking cultivators, showing an advance in the direction of more thorough cultivators.

George W. Brown, Galesburg, Illinois, exhibited a sigear for attaching a common walking plow at pleasu very convenient arrangement, and allows the plowmar plow to the strength of his team. The same party exhorse cultivator, with handles adjustable to any eleshovels are so attached to the bar that the bolts do not face of the shovels.

Moline Plow Company, Moline, Ill., had on exhibition steel mould-board and arch, with a very convenient dulating the depth of cutting and setting the land slide bined cultivator, with seat and handles, adapted to or walking, and a cultivator constructed for walking same company showed a collection of breaking plosizes, adapted to breaking sod or stubble, and convocate or steel beams, to suit the fancy of purchaser on all these implements was executed in good style, hand substantial.

P. P. Mast & Co., Springfield, Ohio, showed a two-hot adapted to either riding or walking. When riding, the controlled by the feet. The fenders on this culti-

volving disks, with deep indentations around the edge. Also, the same party exhibited a sulky running-gear to which a common walking plow may be adjusted and made to operate as a sulky. These implements were made of good material, fine workmanship and with a high finish.

South Bend Chilled Plow Company, South Bend, Indiana, exhibited a sulky plow of chilled iron highly polished. This plow has a peculiar device, by which the plow is lifted out of the ground by the force of the team, by merely throwing a ratchet in gear. Also a fine display of eight breaking plows, with polished shares and mould-boards of chilled iron, and malleable iron standards. They were of various sizes, from 10 to 16 inches cut; and the larger sod plows have revolving cutters or jointers.

J. R. Green, Indianapolis, for Bucher, Gibbs & Co., manufacturers, Canton, Ohio, showed the Imperial Breaking Plows, consisting of a group of thirteen plows, varying in size from a 10-inch cut to 18 inches; chilled iron or steel mould-boards, highly polished, and shares of steel and cast iron, so fitted as to be used interchangably at will. A special device for elevating or lowering the draft by an adjustment of the clevis was noted as a point of merit. The materials used were of the first quality, and the workmanship showed a high degree of skill.

The Weir Plow Company, Monmouth Illinois, from the branch house in Indianapolis, exhibited a group of plows, among which we deem worthy of special notice, a sulky plow with an ingenious device for lifting the plow out of the ground with horse power, by an interference with a spoke of the wheel when in motion. By a sliding adjustment the plow can be set to or from the land, so as to accommodate it to two or three horses. Also an iron-beam walking cultivator, with an arrangement for hitching the team so as to divide the direct draft equally between the beam and tongue. Likewise three classes of breaking plows; sod, stubble and general purpose plows. Each of these showed specimens of steel and chilled iron, and each had samples of wood and iron beams—in draft requiring from one to three horses. Also a combined sulky and walking cultivator and a double shovel, all of good workmanship and fine finish.

L. Yinger, Indianapolis, exhibits the Slusser sulky plow, which is a strong, well-made riding plow of the generally approved pattern. With a team of three horses it will do good work. Mr. Y. also showed an attachment for using an ordinary walking plow as a sulky.

C. E. Merrifield, Indianapolis, had on exhibtion six two-horse cultivators, among which the Brown walking cultivator has the special merit of an adjustment to force the shovels into the ground by the draft without special exertion of the plowman. Also the draft is equally divided between beam and the tongue. In the same group is a sulky cultivator with a jointed tongue, by which means, it is claimed, a greater motion is given to the shovels. The same party exhibited the Cassaday sulky plow, which is peculiar in having no land side, the lateral pressure being sustained by inclining the off wheel outward at an angle of 30 degrees. It claims a saving of 20 per cent in the draft.

James M. Buchannan showed a heavy iron-framed road plow, that with a sufficient team will do good service.

Typer & Hadley, Indianapolis, exhibited a complete line of plows, among which we note as worthy of special attention, the Mishawaka plow—chilled iron and steel, both iron and wooden beams, the Aughe steel plow, Troy Champion, steel, one, two and threehorse plows. All these were complete in material and finish. The same party also exhibited the Dayton sulky plow and the Moline and Hughs' sulky, both riding plows of merit. In the same group we find the Mishawaka walking cultivator and the Malta combined riding and walking cultivator. To this last, was attached a pair of light cultivator harrows, (entered by J. A. Wood, Greensburg, Ind), which we regard of special merit in the cultivation of corn in its early stages; also, the Long and Alstatter cultivator, with an adjustment to regulate the width of tread between the wheels. Each horse operates his own plow independently. In the same group we observed an iron framed sulky, with the plow operating on the off side of the wheels, while these ran entirely on the unbroken land, two horses walking on the land and one in the furrow. The arrangement is a great relief to the team, and if side draft can be obviated, will be worthy the attention of farmers. A notice of a very complete stock of road making tools, such as road plows, scrapers, surface graders, etc., will close our observations of the very large collection of implements in the plow line showed by Tyner & Hadley.

Daniel Unthank, Indianapolis, exhibited a two-horse walking cultivator, of very fine workmanship and high finish. In several points, this implement departs from the general pattern of cultivators, which departures are claimed to be improvements, but our space forbids our describing them in detail.

A. Conde & Co., East Germantown, Ind., exhibited a group of plows, five in number, two and three-horse sizes. Polished steel mould-board and share, and malleable iron standard. Strong and well made.

Furst & Bradley, Chicago, Ill., showed a collection of twenty plows, embracing the various sizes of 10 to 16 inches of land cut. Sixteen of them are made of steel, hardened and highly polished, and four are of burnished chilled iron. In the group were two sulky plows of different sizes, with the usual adjustments for regulating depth, width of cut, etc. The hand plows represented sod and stubble breakers and general purpose plows; also, two sulky cultivators of good pattern and fine workmanship and finish.

SECTION II—SEED DRILLS AND CORN PLANTERS.

Johnson, Gere & Truman, Oswego, N. Y., by J. A. Moffit, Agent, exhibited an eight-hoed combined seed drill and fertilizer. It has a force feed and can be adjusted to sow various kinds of grain or flax seed in quantities varying from one to ten pecks per acre. The attachment for distributing commercial fertilizers is very complete, and will do its work uniformly and well. The same party exhibited a nine-hoed drill without the attachment.

The Farmer's Friend Manufacturing Company, Dayton, O., exhibited three wheat drills of an approved pattern and good workmanship. The same company showed a double-row corn-planter, dropping by hand-lever or check-row attachment, consisting of a wire stretched across the field and check balls at the proper distance apart for the rows.

George W. Brown, Galesburg, Ill., showed two corn-planters, the Excelsior and the Imperial. The first of these has a spring attachment to keep the runners in the ground. Both plant two rows, and are hand-lever dropper, but have arrangements for attaching the wire-check row-drop.

P. P. Mast, Springfield, Ohio, exhibited a wheat drill with fertilizer and grass seed sowing attachments. The hoes are set on rubber springs and the adjustment is complete for regulating the amount of grain, grass seed or fertilizer to be distributed. The hoes have movable points, so that they can be sharpened when necessary or replaced when injured; also, a five hoed one-horse drill for corn ground. These were all made of good material and excellent workmanship.

13—AGR. REPORT.

BOARD OF AGRICA

Caylor, Indianapolis, showed per springs. One of them ha meal or other fertilizer in the letermining the amount dist where Machine Co., Mechanical digrain drill with screw feet the uniform depth in the gill.

! Manufacturing Co., Grand H planter, dropping double ro otated by an endless chain s the same time in each row.

errifield, Indianapolis, exhibited by S. B. Hart & Co., P ts from the usual type of who's seat is placed behind the der point of observation. The ider on the tread than contowing the number of acres excellent workmanship and g

shol & Co., Indianapolis, had o seding in corn ground; two and one with six hoes. The g and have indicators determ acre. The hoes are hingeng on wooden pins.

Sherry, Dayton, Ohio, showed a t of the driver and grain box eve the pressure of the tongt h a fertilizing attachment a t of gear at any time and the rell made.

Indianapolis, exhibited one-h or seeding in corn ground. erything else from this shop,

gricultural Company, Richmo drill. The hoes are adjusted ljustment makes a very regu company exhibited a broadc fficient arrangement for scatt possibly be done by hand so

ţ

le, Indiana, showed a check-row marker for s, and marks five rows at once. A convenient

rty, Ind., exhibited a wheat drill whose chief r. It is a force feed and easily regulated to sow t of grain. It is neat, light and simple.

sline, Ill., exhibited three corn-planters, to-wit: a-row, hand-drop planter, dropping a given ry accurately.

with an adjustment for regulating the space a the row.

ow planter, dropping by the usual wire and

re well made and cover the entire demand in

dianapolis, in a large collection of farm impleideast sower for either seed or commercial fernient implement. Also two grain drills, one
iment and the other without. Also the Victor
e and five-hoed, and a single-row corn drill.
ik-row corn-planter, using the wire and balls,
gement may be detached and the planter used
Also the Union corn-planter, with or without
it, with either rotary or sliding drop-plates, the
ilers, the rotary changes feed without changing
ith's check-row dropper, using either cord or
ous device for changing the line at the end of
ching it.

anter Co., Quincy, Ill., exhibited the Barlow nter. It drops by a hand lever and is a double ps a given number of grains with great regulow corn drill with an adjustment regulating rains in the row.

y, Ohio, exhibited three corn planters; one a sted by a lever, planting two rows. The others structed that they may be used as hill planters; simple, strong and well made.

III.—HARROWS AND PULVERIZERS.

oline, Ill., had on exhibition a sectional harrow, inged to its fellow by a flexible joint, and deed. When connected, the harrow accommo-

BOARD OF AGRICULTU

elf to the inequalities of the grounction, a light one-horse harrow is fu

cir Plow Co., Monmouth, Ill., exhibite f three square harrows so connect he outside harrows could be turne thus give less width and greater we

the Co., Kalamazoo, Mich., exhibited and this implement consist of borpoints of which operate as a numb effectually pulverize the surface of m a one to a four-horse harrow.

ent & Sons, Lansing, Michigan, showe construction. The teeth are of sprin int and reinforced by a pair of spirth.

r, Indianapolis, exhibited a jointed to sel teeth, so arranged as to make an integration of the soil.

Kimberlin & Co., Indianapolis, had ectional harrow with teeth so attach esirable angle that the harrow will or other rough ground. It is a stro

& Bigelow, Kalamazoo, Mich., exhibited ged so as to accommodate itself to steel and are inclined backward so ground.

Teacock, Dublin, Ind., showed a pla combined. It is an implement adapplication in the cultivation of a c It is simple, easily managed, and n

n Caylor, Indianapolis, exhibited a d revolving disks in each set, and th direction in which the team is mov tally stir newly plowed ground and t rerizer has high merit.

SECTION IV.—HARVESTERS AND RAKES.

Jefferson Caylor, Indianapolis, exhibited a self dumping horse rake, with a continuous wrought iron axle. The teeth of spring steel, have a spiral coil at the base.

C. E. Merrifield had on exhibition two horse rakes—the one a hand dumping rake with very long teeth and consequently great capacity of winrow; the other a self-dumping rake of the same general pattern; also a hay-loader, consisting of a revolving rake and elevator attached to a wagon, by which arrangement it is intended to gather the hay and carry it up to the loader on the wagon, dispensing entirely with hand work. If the design can be carried out, this will prove an important labor-saving device; also, the Buckeye harvester, a wire self binder, Miller's patent. It is chiefly remarkable for the simplicity of its construction. Made at Akron, Ohio.

Walter A. Wood, Chicago, Ill., by John Osterman, Agent, exhibited a self-binding harvester, using twine in the operation. It ties the double bow knot, common to twine binders, by a very simple and yet efficient device. It showed a complete control of the reel to accommodate it to different conditions of the grain. The same party exhibited a wire-binding harvester and a sweep-rake reaper. All good implements of their kind.

Sandwich Manufacturing Company, Sandwich, Ill., by W. M. Jones, Agent, exhibited two self-binders, the one binding with twine and the other with wire. They carry the grain from the platform to the binder by the vibrating elevator, by which means it reaches the binder without being tangled. Good implements and easily managed. The reaper in each of these machines makes a cut of six feet, and they claim to do this without materially increasing the draft.

- D. M. Osbourn, Auburn, N. Y., Wm. J. Wheeler, Agent, exhibited a group of harvesting implements, consisting of two self-binders; one binding with twine, the other wire, both doing their work with neatness and dispatch. Also a combined reaper and mower, with rake attached, and a combined machine with dropper. The same party exhibited an independent self-raking reaper and an independent mower. All the implements were made of well selected material and of good workmanship. The machines were all furnished with a removable steel ledger plate in the guard, rendering repairs at this point easy.
- J. B. Haywood, Indianapolis, showed a twine-binding harvester of the old reliable McCormick pattern. It is a strong, well made machine, somewhat heavy, but will do good work.

Agricultural Works, Richmon per (Royce pattern), five i ne is well made.

ibling, Akron, Ohio, showed has a table rake, and has re

It has a special arrangement is though it would do good ith sweep rake and drop a independent reaper and r

t Co., Indianapolis, showed It has a spiral spring for r form, in wet or dry grain, s my desirable hight of stub by a truss brace under it. sing reapers and a mower, s

Hadley, Indianapolis, exhibits rake of good workmansh Exchange, Indianapolis, E. & ine binding harvester, a we ling with twine, tying the ung hay rake of good workm

SECTION V.—GATES A

Co., Columbus, Ind., exhibite y the wheel of the vehicle p lways from the driver, the c s moved, both in opening

sk, Indianapolis, exhibited a ge or wagon wheel. It op ags. It requires but little for arrett, Scott county, Ioua, she e middle of the upper rail, and is operated by a cord ap snow.

Indianapolis, exhibited an g wheel, but acted on by se e rods always acting by tragement is a good one.

SPECIAL MERITS OF EXHIBITS.

John D. Shannon, Piqua, Ohio, showed the Eureka is opened by a lever. The gate is hung in the mide pended on arms so as to move with but little force.

Kelso & Hickey, exhibited a gate that is opended a heavy weight in a boxed post, which acts like a cloc requires to be wound up at intervals. It is operated hand pull.

Owen & Small, Carmel, Ind., had on exhibition a gat frame-work, filled in with wire netting. It is ma automatically. The same exhibitors showed a sp Sedgwick wire fence. The net work is made by n when put on substantial posts, makes a handsome, a and cheap fence.

SECTION VI.-MISCELLANEOUS ENTRIES

George W. Brown, Galesbury, Ill., exhibited the Leic A revolving sutter, operating six knives, cutting the sure on the ground into sections of ten inches in len

P. P. Mast, Springfield, Ohio, showed apple mills of t gle horizontal feed-roller above and two crushing Operated by crank and fly-wheel.

Weir Plow Company, Monmouth, Ill., exhibited a equalizing the draft when working three horses abothing.

- J. E. Pater, Ottowa, Ill., exhibited a horse hay fork mowing hay, adjusted to a wooden track, and the sar for an iron track. An important labor saver.
- C. E. Merrifield, Indianap lis, showed a horse hay Hoosier hay carrier, operating on a wooden track, wi lers, and a good device for protecting the rope in d load. Made by J. C. Wingate, Crawfordsville, Ind.

Typer & Hadley, Indianap lis, exhibited a large coll and barn tools, among which we note Baldwin's powters, with safety fly-wheels; also Salver & Deming hand power. These machines effect a great savir fodder is fed to stock. The same party showed filling Giant corn and cob crusher, to be operated by himeans of a sweep; likewise two sizes of the Victory mill, to be run by belt, and a French burn corn mill tal shaft; also the Challenge feed mill (metal), with attached, which can be used separately if desired.

bolt connected with this mill which may be used corn shellers of different sizes, and two combines thellers were noted in this collection, as also mill and Cook's evaporator, in good order for root and vegetable cutter, for preparing that kind three sizes of the American cider mill a exhibited. In the same collection we found the with knives set spirally, and adapted to cutting desired, and also a full assortment of garder Allen & Co., and a potato digger well adapted to hard work by horse power.

Typer & Hadley also exhibited the Goshen v porcelain-lined piston chamber, and lastly we two-horse inclined plane powers, with govern controlled the speed.

P. Smith, Bro. & Co., exhibited a portable pow a capacity of 1,500 bushels of corn per day with

Jefferson Gube, Auburn, Ind., exhibited a hand with screens for separating all impurities from thing to have in a barn.

Wm. H. Dungan, Indianapolis, showed a bag one hand at the threshing. Every farmer shot

Abijah Cassell, Indianapelis, exhibited a hay operating by horse power, and designed to carr to the top of a stack 25 feet high

J. I. Knapp, Adrian, Mich., exhibited a tile making round tile, and doing good work. It a 15,000 brick per day, with a ten-horse power.

Chandler & Taylor, Indianapolis, exhibited drain tile machine which pioneered the drair State, and by its various improvements, has be its standing in the public confidence to this tin

E. Over, exhibited a power cider press, ope geared screw. A machine of great power and e a road scraper made of plate-steel, very strong a cane mill with three horizontal rollers, prop iron grave-enclosure, of artistic design.

Champaign County Manufacturing Co., Urban ditching and tile-laying machine. A mole fo ward and lateral pressure, in which the tile is proceeds, and the ditch closes itself. It claim

SPECIAL MERITS OF EXHIBITS.

rods per day, at a depth of two feet. In heavy clay it wil erate well at a greater depth, and this is scarcely beyond the frost in this climate.

J. D. Milick exhibited Sprout's hay elevator and carrier, Muncy, Pa. The track decends at the outer end so that moves forward at once on reaching the track, thus rende draft steady and uniform. Also a combined hay fork at The cutting edge is on the rigid part of the bar and cuts by motion.

Wm. Burford, Indianapolis, showed fine specimens of book and lithographing, and a splendid collection of blank bo stationery.

Charles Soehner, Indianapolis, exhibited a variety of piano etc., end a fine stock of goods pertaining to the musical art

D. H. Baldwin, Indianapolis, showed pianos and organitone and high finish, and other musical instruments, in fument.

The Howe Sewing Machine Co., by E. D. Olin, Indianapoli ited the old reliable Howe sewing machine, with its latest iments.

- W. H. Idings, Indianap.lis, showed the Eldridge sewing 1 a light running general purpose machine.
- E. E. Brown, Indianapolis, exhibited the Domestic sew chine. The shuttle, needle and feed motions are produce eccentric and lever. No cogs nor cams in the machine; varunning and entirely without noise; exceedingly simple struction.

Davis Sewing Machine Company, Chicago, Ill., exhibited a machine in which the feed has the peculiarity that the prerises entirely clear of the goods before the feed motion m ward, rendering the stitch uniform. It does fine work.

Wheeler & Wilson Sewing Machine Company, Indianapolis the machine which bears their name, and which has a we lished reputation. It substitutes a revolving hook for the A late improvement is a hollow needle-bar, thus diminish weight.

R. E. Stephens, Indianap.lis, exhibited the White sewing 1 This is a shuttle machine, producing its motions by an e It is simple, light-running and noiseless.

Indiana Farmer Company, Indianapolis, displayed a fine coof premium corn, and distributed copies of the only wee cultural paper in the State.

BOARD OF AGRICULTUI

kwell, represented the Journal of C d to commercial interests. Publish

Review, a weekly agricultural and in Chicago, Ill., and represented by s. It claims a circulation of 25,000 day, Indianapolis, showed a fine cost bottles.

: Co. Indianapolis, displayed a lar; n, purple and scarlet, claimed to be ter, Chicago, Ill., showed a stock of st, Cincinnati, exhibited an automati d atmospheric air.

n displayed a large assortment of c ry in Indianapolis. We tested the lent.

tenk, Fulton, N. Y., exhibited a ciderare, and screw press, both operated rington, Indianap is, showed a conew principle. It has steel rake the ground, and a series of revolving at a rapid rate, cut them. It h-priced for small farmers.

GENERAL REMARKS.

of 1880 had the best display of farm, whether considered in regale workmanship and finish of the ation to use, that has ever been made of our farming consists not so me, nor in the thoroughness of our resimplements and machines furnished acknowledge our indebtedness to brican people, and the faithfulness. The unparalleled progress of the last astonishing, and yet each year explosion of this march.

te fair it was easy to see to what the attention of the public was chiments, the self-binding harvesters recent introduction of twine bind

SPECIAL MERITS OF EXHIBITS.

success in making a perfect knot that neither comes untie slips, kept a crowd around those machines from morning till Many persons object to the use of wire in binding, whether good cause or not, and the introduction of twine, which rea this objection, and is no more expensive, creates a decided sem among those most interested; and well it may, for binding vesters are, par excellence, the improvement of the present tim

Next to the binders, the Sulky plows and cultivators were, pe the largest center of attraction. We are not willing to believe it is altogether the prospect of riding on a cushioned seat whe work, that furnished this attraction. The ability to do more better work in a given time is no doubt the chief motive that attraction to these improved plows. There is a great different ween finishing a row of corn at once, and the old process of "times in a row." It is not so much the saving of labor we seek, as the making of labor more productive. If the lat passing once through a row produces the same results that pathree times formerly did, we very naturally incline to it.

Considerable attention was drawn to the combination of an ratus for distributing commercial fertilizers, with wheat drills in many parts of the State they will, no doubt, soon commercial use.

Harrows and pulverizers received a fair share of attention by no means as much as they deserve. Our farmers are just we up to the high importance of a finely pulverized soil.

Respectfully submitted,

R. T. Brown, C. A. Howlani Comma

BOARD OF AGRIC

REPORT OF FOURTH

OF THE

TTEE ON SPE

Articles Contained in Books

signed committee, appoir holstery, carpets, etc., ente eport that they have care ibibition, and have noted in he hasty examination white allow. Owing to the in any articles on exhibition fired information.

y of carriages, buggies and

us & Co., of Indianapolis, exages, buggies and wagons nich was their solid-top de irele track, a paragon of prof design; it certainly has exhibited by this firm are most perfect wagons ever, Indianapolis, exhibited

ne buggy tops of their ov

tis & Co., Greencastle, Ind., up-seat—a most perfect car Ferrard, Indianapolis, show ggies. Their leading exhib y, hung on four half sprin each other, supporting the e hung very low.

- F. Bremerman, Indianapolis, exhibited two carriages and two buggies; a jump-seated carriage, remarkable for its simplicity.
- A. A. Helfer & Son, Indianapolis, exhibited some very fine carriages; also a Timkin's gear side-bar buggy, a decided improvement over the old style; also a very fine two-seated Kellogg.
- Charles H. Black, Indianapolis, exhibited a large assortment of buggies of superior workmanship.
- C. Fockler & Brother, of Dubuque, Iowa, exhibited a good assortment of their new joint-brace carriage tops.
- J. P. Wood, Indianapolis, exhibited a splendid collection of wooden dishes, brackets, etc. Also a great variety of paper sacks made by special machinery, said to be the only manufactory of paper sacks in the State.
- The Udell Woodenware Company exhibited a large assortment of their celebrated step-ladders of various sizes and patterns, and a general assortment of wooden wares.
- G. G. Seaman, Indianapolis, exhibited a superior hand-cart, which attracted a great deal of attention.
- J. H. Harford exhibited an adjustable single-tree, the most convenient and useful thing of the kind in use.
 - R. Frauer & Co., Indianapolis, exhibited harness and side-saddle.
- J. Wesley Bennett, Indianapolis, exhibited some very fine specimens of portrait painting in ink and water colors, from old faded pictures.
- Harry Shartle, Indianapolis, exhibited a very neat collection of photographs, porcelain finish, which were much admired.
- F. M. Priest, Indianapsis, exhibited Adams' illustrated chart of Biblical and secular history, which attracted a great deal of attention, and appeared to be a work of considerable merit.
- C. C. Raesner, Indianapolis, exhibited some specimens of pen drawing, of rare merit, showing great artistic skill.
 - Stephanna Schusster, city, exhibited a large assortment of notions.
- H. B. Sherman, Indianapolis, exhibited a magnificent oil painting of his farm and stock, which was much admired; also, an unique collection of Esquimaux fur costume.
- J. C. Wampler, Indianapolis, exhibited an oil painting by Miss Lizzie Webster, which was much admired.
 - R. E. & Florence Harrison, city, exhibited three pencil portraits.

exhibited an oil pain sautiful picture, the co dianapolis, exhibited h

city, exhibited a folding of construction; the beck without interfer findianapolis, made a notich attracted considers Desk Co. exhibited son mired.

er & Co., Indianapolis, ps.

to, Indianapolis, exhibi d undertakers' goods i

Bed Company of India ebrated folding beds. g so arranged as to be this or springs. Whe of a bureau, side-boars the book-case style is no ase and secretary, the gant article of furnity be opened or folded the the bedding and pill but disarranging or w pillows and bedding in a space of a common to moved from one room

of most elegant styles the most notable: an c casket, with glass peg, lined with silk and ly mounted with silver oval-top casket, richly mitation rosewood cad trimmings. The grads displayed, were all lothing Store, of Indianana, who visit the Stat

ation from your committee, they being the only house who have made a display of clothing and gent's furnishing goods at the State Fair for three years, each succeeding year making its display upon a grander scale than the preceding season. This fall they eclipse in magnitude and elegance anything ever seen in this class of exhibits in the West, not excepting our large cities even. Before they could display their goods to advantage they erected, at their own expense, a suitable stand, costing several hundred dollars. This stand was formed in the shape of a magnificent palace car, beautifully papered and ornamented, from which to exhibit a line of samples that would form a good stock for a small dealer, the enentire display of clothing, representing everything conceivable that a child from two and a half years old might wear, to a suit or an overcoat that would be appropriate for the man with frosted locks, was surrounded by a line of glass show-cases filled with samples of the largest variety of gent's furnishings ever seen before, we believe, at any State Fair. There seemed to be nothing that man could suggest or desire in the line of wearing apparel or furnishing goods that could not be found in this beautiful palace car. The charming elegance of their display was evidenced by the dense crowd of admirers who continually surrounded their stand. In fact, all the space in that part of the hall was so thronged with admiring spectators that your committee found it impossible to gain access during the day to make their examination. The grandeur of this display, constituting as it did one of the most attractive and interesting features of the upper hall, was only equaled by the superior style and quality of the goods displayed.

The Dwinnell Brothers exhibited a very large and fine assortment of the justly celebrated genuine Hartford boot. Their display consisted not only of an extensive assortment of boots and shoes of every variety and style in the finished state, but in addition to this they exhibited a large quantity of the raw materials, so that people could see for themselves the fine quality of the stock used in their construction; and last, but not least, was the exhibit of boots in all stages of construction, showing the superior workmanship of their goods. They have earned for their work, and justly, too, a world-wide reputation. Having had many years of experience in this line of goods, we most unhesitatingly affirm that we have never seen on exhibition at any State Fair in the country anything to equal the samples shown, both for solidity, durability and quality of materials used.

The magnificent and unequaled display of fine furniture by Messrs. Sander & Recker, of Indianapolis, was one of the most interesting and

ttractive features of the upper hall. urniture exhibited by this firm was all nd exquisite workmanship. For beau f finish their work is not surpassed b acturers, while the materials used are one other being used by them. Amor beautiful bed-room set of exquisite apanese style. The peculiar feature rnamentation being carved out of the onstructed, instead of being glued on i ibited a magnificent parlor set, trimme f most unique pattern, consisting ps unnie and Turkish styles combined in eauty. The new style of trimming thich adds so much to the charming be vidence of the good taste and skill dist Their library set, in Japanese style, w ess, convenience and durability. The ng to this set has only to be seen to be nd arm chair belonging to this set wer ering them neat and durable. unnie style, was also trimmed in leathe emarkable for its size and strength, a iated by those who have used the old-is ofore made.

Spiegel, Thoms & Co., made a magnifical furniture. The elegant parlor set, if y this firm, consisted of two divans, come silk-plush trimmings, and chairs to particle, (German marble,) trimmed nantle mirror, French plate glass, with rate ebony easel; a chamber set, in reatly admired and coveted by the hual to the bed-stead was superbly grandreau with French plate glass and Topring mattress, the envy of the wear hairs, with rocker to match, all covere only tapestry goods, combined to renqualed beauty and loveliness, which add

f the exhibition. The quality of the furniture made by this firm as been so long and favorably known that it needs no comment on us. Their work is first-class in every particular.

The magnificent display of carpets and house furnishing goods, at the head of the stairway at the east end, was from the well known house of Albert Gall, of Indianapolis. This was one of the grandest and attractive features of the upper hall. Such a display of ingrain, tapestry, body Brussels and velvets of the latest styles and most handsome patterns, produced by the looms of the world, is seldom seen. A variety of the most beautiful styles of lambrequins were exhibited with charming effect. A most beautiful pattern of the style of Louis XIV, shows in medallion, a court scene upon French crape; the wings are raw silk, hanging in rich folds, the colors black and old gold, with fringe and tassles elegantly matched. Another pattern is called the Queen Elizabeth, the materials were of raw silk. The peculiarity of this pattern is its elegantly draped. center, cut in exact geometrical proportions, with extended wings. displaying beneath its folds a pair of handsome real lace curtains, Another style is named the pole lambrequin, made of the new olive shade of silk of the French damask pattern. And still another, the mantel lambrequin, was simple in its character, is composed of Turkoman cloth trimmed in gold and black. The beauty and charm of the entire display consists not in mere groupings of the rich materials used in house furnishings and decorations, but Mr. Gall has, with these materials, wrought out a fac simile interior of a modern home complete. The good taste and admirable skill displayed in the arrangement of the whole affair, is what lent such a latent charm to the really beautiful picture, for it was a magnificent home picture, that was universally admired as evidenced by the constant throng of spell-bound visitors. Yet, beautiful as it was, it is only equaled by the quality and style of the goods, for Mr. Gall allows no one to surpass him in that respect.

The Moore Combination Desk Company, of Indianapolis, exhibited a great variety of their justly celebrated office desks. Their counting-house king, as they call it, is the most perfect and convenient desk for mercantile houses ever invented, combining as it does, the advantages of two complete desks in one—sitting and standing—which can be used at the same time without any inconvenience whatever, as the occupant of one desk does not interfere with that of the other in the least. It has a capacious table, occupying the entire width of the desk, and is supported and operated by metal slides; upon these slides the table can be moved into or out of the recess easily and instantly without removing from it a single document. It contains over 125 different compartments, arranged to secure the greatest convenience and practicability. The office

14-Agr. REPORT.

agen, a single sitting cabinet desk, is invenience, occupying but little floor a g a great number of conveniently acce riting table is its most valuable feature I practical purposes It can be readil aving to remove the papers upon it. fired, and is equally appropriate for 1 en. Their improved flat top desks c al form, the elements of economy, conarability; in fact, it possesses all the ore expensive article. All their desl asoned lumber (walnut and oak), put ct manner by skilled workmen, and a ery particular. These desks comprise which contains a sufficient number (ption of documents of every variety t anned and arranged to secure the m very part. These sections are connecte nd are secured by a single lock of the at the ladies desk, exhibited by this co ot do justice to the subject, it was sup e most exquisitely beautiful, neat and nd ever produced in this country. I id ornamentation being composed of r oods of the most rare and costly kind imbine to make this desk the most co mient article of the kind for ladies us marked while standing spell-bound t he very acme of perfection.

In submitting the foregoing report, ark that they experienced a great desuch time in the vain endeavor to find ticles exhibited, and if your committ scribe as fully as they might the mean, the owners will have themselves to resent to give the necessary informatic All of which is respectfully submitted

EDUCATIONAL EXHIBIT.

REPORT OF THE COMMITTEE

ON

EDUCATIONAL EXHIBIT.

The educational exhibit displayed by the Purdue University compr mathematical work, trigonometry, surveying, leveling and ast omy; industrial art and design, including crayon drawing, ahac from models and machine drawing; perspective; clay modeli German examination papers and translations; academic wor charts in history and physical geography, including map draw iron work from the mechanical department; products from experimental grounds of the agricultural department, and schedule collection of Coleoptera from the department of nat history, which has 7,000 specimens and over 2,000 design. species. This being the exhibit of an industrial and agricult college, it was peculiar in its character, and reflects great cr upon the institution, which has for its objects the combining of theoretical and the practical in such a manner as to teach the derlying sciences of art and agriculture with especial reference their useful application. The exhibit was particularly worth; notice in the work shown by the mechanical department, which cludes work in three courses, viz: forging, machine work and work or filing. The completed models shown each illustrate principle or a combination of principles, proceeding from the n simple to the more difficult. The models in forging show welc and tempering, drawing, bending and upsetting, until at the en the course the student has made and tempered many differ kinds of tools, including those to be used in his future lathe machine work. The machine work includes plain turning squaring of a few planed models, which proved to be very accurand screw cutting and taper fitting of the most delicate workn ship. The vise work was finely executed, and shows that sys and instructions will, in a short time, make of the student a we man who can equal the skilled machinist. The work on the

dels consisted of plane surfac ng. Among the models attra chanics visiting the Exposition. · piece of iron into another, so er piece could be easily slid in seen. Another was a screw cut ellent pieces of chipping, Of ft coupling, made by a student, shop in the country. The spe ntal grounds of the University comparative growth of these v ditions. There were presented grain and in sheaf; fifty-six vari ms, besides several varieties of ieties of fertilizers used in exp i a section of soil thirty-sever are of the soil of the experime ., was the most satisfactory and icational exhibits this year, and partment of the Purdue exhibit i showing a high degree of pa uld recommend diplomas for 1 chanics.

The display of drawings made by rthy of notice. The system was the American text books of art ching two things. First, how to ange the proper subjects for the gives a knowledge of all the astruct them, with the applicat d in the representation of comm developes manual skill in drawii struction in various branches of cation, first, of knowledge of form rus, besides a knowledge of get ovides for object drawing, by p rved, in expressing both the facd manufactured objects in the color. It provides instruction e taste and the creative powers nnection with the study in gestorical ornament. It gives in aching the elementary principl ral drawing and drafting for

harmonious grading of all these branches of the subject, with reference to the development of good taste, artistic skill and expression, and an appreciation of the beautiful, both in nature and in art.

Exhibit of drawing by J. M. Olcott, Forbinger's system, representing the work done by two hundred different pupils connected with the public schools of the State, where Forbinger's drawing is used The advantages of this system are: 1. Solid surface, which obviates the elasticity or spring so objectionable in ordinary drawing books. The size and compactness is a matter of great convenience. 2. Their practical character. The useful has not been sacrificed to the ornamental. 3. Careful gradation of exercises. No complete design is attempted before the parts thereof have been drawn separately. 4. The charm of novelty is maintained. The different sheets of the tablet are fastened together in a manner that makes it impossible for the pupil to see the lesson in advance. 5. Abundance of material. The tablets contain a greater number of pages and exercises than any of the ordinary drawing books. The material is of superior quality. 6. A Comprehensive Teachers' Manual accompanies each number of the tablet, which enables any person capable of giving instruction in other branches, to teach this successfully, even without special preliminary training for this purpose.

Diplomas were awarded to Chas. C. Koerner, President of the Bryant & Stratton Indianapolis Business College on business writing, ornamental penmanship, off-hand flourishing, pen drawings, pen portrait, card writing, stipple work and display of penmanship.

To Professor C. N. Hamilton, teacher at the Bryant & Stratton Indianapolis Business College, upon penmanship, pen portrait, pen lettering and pen drawing.

A diploma was awarded to Charles J. Dunmeyer, student of the Indianapolis Bryant & Stratton Business College, upon a set of books which he exhibited, and which showed many points of excellence and labor-saving methods.

A. W. BRAYTON, J. CARLETON,

Committee.

A CLOSING INCIDED

The unparalleled success of the Indiana Sted an enthusiasm with the exhibitors in temperature that found expression in membered by the participants.

We copy the following from the Indianapoli 1880:

'Hon. Alexander Heron, Secretary of the & ture, was the recipient of a handsome and ony cane, last evening, the following gentlen r. being the donors. The presentation was the Grand Hotel, and was in consideration see during the fair. The recipient was presented into the presence of over one hundred e presentation speech was made by Willis iberling & Co., Akron, Ohio.

'Charles Brookbank, Fayette county; C. E. M der, Indianapolis; Jefferson Caylor, implem lis; Fassler, Whitely & Kelly, manufacturer ringfield, Ohio; Henry L. Conde, implement Over, manufacturer grain-drills, Indianapol plement dealers, Indianapolis; Mr. Byfiek lianapolis; Seiberling & Co., manufacture ron, Ohio; Aultman, Miller & Co., manufactu d mowers, Akron, Ohio; Farmers' Friend 1 ny, manufacturers Farmers' Friend grain ide Bros., manufacturers Indiana grain dri edle & Kelly, Champion corn planter, Troy, C lo., manufacturers sulky plows, etc., Hamilto Co., manufacturers sulky plows, etc., Rocl ckler & Co., manufacturers buggy tops, Dt d Mansur Co., manufacturers Deere corn pla ere & Co., sulky plows, etc., Moline, Illii plement dealer, Connersville, Indiana; C mpany, chilled plow manufacturers, South

A CLOSING INCIDENT.

Hart & Co., Union grain drill manufacturers, Peoria, Illino Selby & Co., manufacturers of Union corn planter, Peori-Hoosier Drill Manufacturing Company, Richmond, Ind. line Plow Company, sulky plows, etc., Dayton, Ohio; J. I & Co., sulky plows, etc., city; Edward Pope, implement de D. M. McSheery & Co., grain drills, Dayton, Ohio; P. P. 1 grain drills, Springfield, Ohio; South Bend Plow Comp. plows, etc., South Bend, Indiana; Weir Plow Company, su etc., Monmouth, Illinois; Bucher, Gibbs & Co., Imperial st Canton, Ohio; George W. Brown & Co., corn planters, burg, Illinois; J. C. Wingste, manufacturer of Hoosier ha Crawfordsville, Indiana; Walter A. Wood & Co., reapers, York; D. M. Osborn & Co., reapers, etc., New York; Wa cultural Company, grain drills, Richmond, Indiana; Bro facturing Company, cultivators, etc., Zanesville, Ohio; W. facturing Company, Challenge corn planters, Grand Hav gan; Studebaker Bros. Manufacturing Company, wage Bend, Indiana; Mast, Foos & Co., wind engines, Springf Hurst, Dunn & Co., steam corn planters, Peoria, Illin Hoover, Monarch separator, Hamilton, Ohio; Chamber & Quinlan, Barnes's check-rower, Decatur, Illinois; Hawoi check-rowers, Decatur, Illinois, and others.

PRESENTATION ADDRESS, BY WILL GAUSE.

Gentlemen: When an attorney is called upon to defer inal at the bar it is generally expected that he should maorate speech, but when the man arraigned already stands fore the bar of public opinion, it is useless, sometimes, foney to have much to say.

Alexander Heron, you have been arraigned before this to-night on a charge you need not be ashamed of. We he you in the capacity you now hold, as Secretary of the Stof Agriculture, for a long time, and it has been a pleasu meet you annually at your post of duty, where we have ceived a hearty welcome from you, besides all the friendly necessary to aid us in the prosecution of our work; as me add, that quite a number of us have been attendin State and district fairs for a good many years, and it is mous verdict that no other association offers such facil hibitors in our line to exhibit, advertise and make sale of as the Indiana State Fair.

Mr. Heron, having in view all this past kindness and tion, it would not be expected of us to find a verdict of z your case, as the charge is that you have always been or

Now, as we have found you guilty, it may inform you that, as a punishment, we hav Some men have been caned to their grea Allow me to say, it is not our intention to in ishment upon you to-night, but, on the othe the memories and associations of this ever antly with you and with us until time shall

These gentlemen here assembled representall the great manufactories of agricultural chinery in the United States, together with of this city; and now, on their behalf, allow this cane, as a token of our high regard and you. I beg you to accept it and hold it in n

RESPONSE BY MR. HERC

Gentlemen: I thank you for this kind appethe sphere of life in which my lot has been of good will does much to smooth the rougees a long way to compensate for weary he is, at times, overwhelming and discouraging express my feelings on this occasion; the sur Although having so recently passed safely thries the nerve of one in my position, that is for which we in a great measure hold you therefore excuse extended remarks. I will this splendid present in remembrance of the sembled.

ESSAYS.

LGRICULTURE IN INDIANA

BY DR. R. T. BROWN,

ana was almost an unbroken forest. E lian title had been extinguished to a narge the Whitewater valley along the earthe Ohio river counties lying south of ast corner of Ripley county, to the Wath of Terre Haute. This cession of 18 n of the State, drained by the direct is and the lower course of White rivers great central and northern plain a hu

e, Miami and Potawatamie Indianas, 1) all the lands in Indiana, excepting the Mississinnewa and a small Potawater of the north. This opened up for a region of the State, and brought into the f fertile, level, timbered land that has e in all the history of western settlemarky known in those days as "the New celebrated for the exuberant fertility ligible ague seats. Fortunately for Incompact for the indiana property of the mers, seeking homes for young fameded 160 acres, and many were limit the purchasers were all actual settlers.

anl agricultural convention.

est which originally covered the central plain labor required to remove it and fit the land I trees interlaced their boughs above and shut the the earth beneath, while dense jungles of spother undergrowth made a second roof, wh woven together with clinging peavines, covand almost bid defiance to penetration. pioneer had strong arms and a stout heart, a dered its dominion of centuries to his indomi-

The first care of the immigrant was to furn ily, and this he was generally able to do the cabin life. At first, his farming was rough an His fields were full of stumps, and, often, the of the late forest almost bid defiance to the lived and fatted on the mast, and the cows for the wild range while summer lasted, and in w supplemented the fodder shocks. These fi soon began to have a surplus of bread and me sale to the new-comers who generally brough them to carry them through the first year.

This primitive stage of farming continued agriculture in Indiana entered on a new era. proved, both in extent and condition of the I plus of corn was produced, but there was no who lived near the Ohio, the Wabash or W grain by flatboats to New Orleans, but the c limited this market to those who lived within streams. Others put their corn into pork, wh transportation to market. Cincinnati profited and became the Porkopolis of the west. Fro was the almost exclusive source of revenue (This led attention to improving the breed them to an early maturity, and from this pe improved stock in that line; but this hog far the fertility of our virgin soil, and by its ha many a stalwart pioneer. Moreover, it had a on the domestic commerce of the country. market but once a year, and the farmer lived credit of his pigs that were not yet weaned vicious credit sustem has borne its bitter fru "financial crisis" since.

The opening of the Wabash and Erie can a new stage of agriculture. It opened a lin

×

th grain could reach the eastern markets from central Ins, and pork could go to Europe without passing through a tropical climate on the Mississippi route. This new line of sportation gave an impulse to wheat farming, which directly ad beyond the regions accessible to the canal. Considerable tities of wheat were taken by wagons from the central council the State and sold at Cincinnati, Lawrenceburg or Madison, price ranging from thirty-five to fifty cents per bushel; yet it ished a little ready cash at a season of the year when that artiras very scarce. This broke the monotony of hog farming, and the initiative step in our progress towards a diversified agritre.

ith the introduction of wheat as a market crop, came the er, the separator and the wheat drill in succession, and thus, in w years, the manual labor necessary for the production of a it crop was reduced fully one-half. Between 1890 and 1850, ter improvements were made in plows than had been made in preceding 500 hundred years. These improvements, made ough cultivation a comparatively easy task. With these insed facilities of production, the great need of the country was access to a reliable market. But this did not long remain an icle. The year 1850 may be set down as the epoch of rail-From that period, the facilities of transportation rapidly insed, till Indiana, from being one of the most inaccessible of the s, became noted for its commercial facilities. The comparay level surface of the greater part of the State, invited to railconstruction, and the fertility of the soil and its adaptation to profitable production of a wide range of crops, insured the sucof the enterprise.

ter the railroad experiment had proved a success, there was one obstacle in the way of Indiana reaching the foremost rank agricultural State. The level surface, which made railroad truction so easy, too often left the fields saturated with water reeks in the spring, and even sometimes in the summer, thus ring cultivation and rendering the crops uncertain. Indeed, h of the best soil in the State was unfit for cultivation on act of imperfect drainage. Open ditches had been made in places, but these, having but little fall, soon became choked weeds and grass, which rendered them useless. A few covdrains had been made with wood as early as 1850, but these ed but a temporary remedy for the evil, yet their efficiency, a they lasted, suggested the possibility of a permanent remedy. remedy came with the erection of tile factories in 1855. Since time, tile drainage has been extensively employed in reclaim-

nuch of the best soil of the State, are in this good work to double the proof of the best land we have.

e introduction of railroads has great increased the number of our marke ed to hogs and horses as the only lus labor into money, as was the car select almost any crop we choose, cet for it, and generally at satisfactor . Henry L. Ellsworth suggested the p meal to Europe, the project was laug ly impracticable; but to-day we place resh meats and perishable fruits in fo dairy and the poultry-yards now fur did the pork market when it was ou toes, which were once a garden crop. ed and profitably marketed. But a fe was raised only for domestic cor I fruits and orchard fruits are an im; me of our people.

ents of our unparalled advance ir gh an indispensable one. The invenkill which have given us the almost ninery of the farm, is an important this would have availed nothing, bgy of our agricultural population. T , we are primarily indebted for t ana has made in the improvement of labor is quick to see the advantag ement, and ready to adopt those whia enlightened common sense.

ough we owe much to our railroad ous an easy access to foreign markets her carrying the crude products of ound receiving in return the manufatally consume, is indeed the best thin er and labor expended in transport naic value of the articles transported commercial value. Now this cost abody, and must be paid; and whether eats our food at the other end of the cast this end, who are the losers, still a practiable. No country excels Ind

consume can be manufactured as cheaply at then why not make them here? What agriculture now demands is a manufacturing consume our agricultural products. Let acentrated form, the surplus of their labor oney thus obtained to us or our agricultural

FORES

OF. C. L. INGERSOLL,

for presenting sor be needed, is found he Bureau of Statis one-half the tillable ssessor's returns." e a little mistake i has led me to look st material at hand in order to see if a in regard to the 1 ther, however, I fir le XXXI., on page number of years re this authority says ars) may seem to pi nuch less population the timber once ex aste what we have l ell acquainted pers State, I have take w the feeling in a f · eavs that in the h e timber had never 3 than as now tilled. says he farther on, want of timber. T z on the farms have but little value exc : very little resistance a being blown dow oak," as it is called Survey, 1874, p. 1

vered before the State as nuary 4, 1881.

grows only on the rich brown loam of the highest hills, (Brown county), does not survive in the valleys, and with the present wasteful consumption, will soon cease to exist." In 1869 report, p. 195, of Franklin county, is said: "This county was originally covered with a magnificent forest, comprising most of the hardwood timber trees of this latitude. A little more than one-half of the lands have been cleared, and are now under cultivation, and in the remaining one-half, a large amount of the best timber has been sawed into lumber or made into staves, so that good timber in the county is comparatively scarce, and is becoming more so every day." In 1875 report, p. 131, Huntington county is mentioned as follows: "This county was originally covered with a fine forest, but clearing the land for farming purposes and the conversion of trees into lumber, have greatly reduced its area and stripped it of many of its finest representatives." On page 177, the forests of Jennings county are spoken of as follows: "These forests have, as a general thing, been stripped of their best timber. The white oak, (Quercus Alba), has been extensively cut for staves, the upper parts of the trees being left to decay on the ground." From Dr. Owen, we have the following, in regard to Posey county: "Within the last fifty years the springs have very much dried up and the surface water runs off much more rapidly, so that we suffer from drouth in various ways more than formerly. The wind, too, has a greater sweep, and hurricanes have been more frequent, with consequent injury to grain as well to the timber left. Few experiments in forest planting," says he, "have been tried." Report 1875, p. 201, Ripley county: "The cutting of white oak for staves deprived these forests of their best timber, yet some groves of wood which have been preserved, bear testimony to the large and abundant growth of the primitive forests." P. 295 says: "The forests of this (Vanderburgh) county * * * afford one of the greatest sources of income. The sales, direct and indirect, credited to the forests, amount annually to over \$4,000,000."

Mr. L. J. Reyman, of Washington county, says: "Our most valuable timber is the poplar, of which about eighty per cent has been used. Next in value is black walnut, of which about eighty-five per cent has been disposed of. Of the oaks, about seventy per cent has been used; and next the hickory of which half remains. Of the white and grey ash, eighty per cent has been used, as has been nearly all the wild cherry. Of the sugar maple four-fifths has been cut off for lumber and cord wood. In addition to these testimonies we have the personal experiences and observations of many of the good observers in these and other counties, who all speak of the grand old forests that were, but now almost wholly or at least in

at part have ceased to exist. The st the quiet bargains concocted, in ten the day when Indiana shall cease he world her quota of this valuable

DEMANDS ON OUR

ecording to the best information ount of forest yet untouched, only & btedly much of the finest timber for ed out of this, and already disposed le on our forests is for fuel; and alth stics to show how much is consume the great majority of our populat d in greater or less quantity. It is it natural advantage of lying partly vast coal fields which furifish fuel for numerous manufactories. If famili e during the winter season they as 3 800,000 stoves consuming fuel c the in the year. If each fire burns we should have over 8,000,000 cord alone. I believe, however, that this e facts could be ascertained. The 1 sta is found in the call for fence n s of the State, much of the forest wa fences, and the improvident, not to for this purpose, in many cases has te construction of the old "worm" re ne bills of expense paid as a direct are vastly greater than we imagine. 17.760 acres, exclusive of ponds, lak 172 lots of 80 acres each. To fence t ire 152,140 miles of fence. The roa on the same, would require an adh would add to the above the sum 4,819, miles of railroads, which, fen e 9,638 miles of fence, making in a s of fence to be supported and ke nate is too low, as many farmers' fie eres, and we have the fences of small towns, which will help to swell th ber as the true amount, and assumir have to be renewed every twenty ye nce to be built every year. We kno have fences or posts last more than twenty years. te as a whole, and the many varieties used in e feel safe in saying that in the aggregate nearly ce have to be built annually to maintain the fences. When we add to this the amount relands which each year are being added to the and woodland pastures, we can see what a draft ection on the remaining forests in this State. her call which is no insignificant one, and which nd more as time rolls on; I refer to the use of ties. We have mentioned the fact of the existof railroad in our State, and we would respecthe end is not yet. There are other lines being still have their corps of engineers running suruture construction. These make an incessant for ties. In the Report on the Foreste of the , by F. B. Hough, p. 116, several railroad compareports in regard to the value of timber of or ties, and the length of time such will last, also c. One of the most full reports was made by which owns, has leased, or operates, in all, about From this report we find that the average life a track, in all its divisions, was eight years for us; six years for those of the second class; and a of the third class. The timber is classified as

ond growth of chestnut, white oak, burr oak, k, black locust, and mulberry. utternut, cherry, red cedar, white cedar, yellow k elm, rock maple, black oak, pitch pine, and

ck birch, chestnut, northern cypress, red elm, maple, red oak, tamarack, and yellow pine. specific in giving this list, as this comprises a fieties found in this State and used for such pur-

sees of timber are used in equal proportion, the ties would be the mean of eight, six and four.

We know, however, that the railroad compass of the better classes of timber, so that for our same that seven years is the average life of a tie e same tables show us that in nearly all instances used per mile is about 3,000. This gives us apta for computing the demand of our railroads on EPORT.

 In a very short time the i,000, and reach into nearly in without railroad at presen which to make and keep up being seven years, one-sever aced annually, or at that ra f two and one-seventh millic s, with a hability of increase this, we have various man of timber, as black walnut inds of cooperage, timber for lustries, according to our r and one-half million doll building material, and this i same authority gives twelve of the State, based on reports ur population increasing at annum, these demands will ir vast pine forests, there wil other trees. According tog Michigan will be over in twer nearly ceased from the upp When this occurs, and the sn k and Pennsylvania shali ha vill necessarily come from t o as to deplete their rich t nich is more than probable. ersons, however, in looking will see that in the near fut for fuel. Barbed wire will 1 perations, or laws may be en pelling farmers to fence the stitute will be found, as tim of our furniture will be ma n only see in this hopeful sic evitable.

says one, "that is looking at a timber famine in twentylook at this matter as indivie life of the individual is sho n, with its vast array of inter r the near future, but reach s of vastly greater importaup the individual.

FORESTRY.

easons which present themselves and adm we destroy our forests. The variations (e opening up of a country to the sweep (ct sunlight by which rapid evaporation to a limit beyond which we may not pass ght to approach with caution. If we hee s who tell us of the danger; if we listen a ges of history, long will be the time in whic it in "sackcloth and ashes." Mr. M. C. Re Culture" in Ohio, says: "If the cornfirestored in a single season, but when the lred years are required for its full restor ntage of forests is essential to the best re-I pasture lands. The lowest amount req cricultural results from the rest, is estimat £."

nd we have only 10 per cent of our fore time that something were done to prepare zed condition of things? Go with me, i e countries of Europe and Asia, and read ons stamped by the absence of woodland Herr Gustave Wex, in Europe, publish 3 dimunition of water in wells and stream n rivers, which he ascribed to the clearing ed long series of annual observations ma g to show that the volume of water had sen riod covered by these records. The rive sine, Elbe, Oder, Vistula and the Danube. e forests the power of condensing mist in conditions of forming rains, partly by he circulation of air, which differences of This paper excited much comment, and is r asked for a commission from the Im-3. at Vienna, to investigate its facts and al sessions, and a thorough examination

That the decrease in the depth of rive s is due to a diminution in the amount of d that this was caused by a failure in the ips. That the causes for this are—

of watery precipitation per annum from

the amount of evaporation from these carth's surface, which, instead of retaining allowing it to penetrate the soil, cause it to

off rapidly, thus causing high water by droughts of long duration.

This subject being brought befor at St. Petersburg, a commission paths, as an example of warning spain were each in turn cited as a sequence of the devastation of formentioned, in some parts of which years ago. These have been chang the population been forced to lead leys. It is said also that the forest and Dneiper have become so clear never before attained while these estry, 1877, pp. 294-7.

In addition to the proof given at which seem to show more or less c nuded of forests is more subject to phenomena, hail-storms, etc., and counties of this State made by p this observation is often noted. In extending over a series of years from be done from the work and countries. We hope to accumulat partment with its signal service, if agriculture in every day work, is in regard to rainfall, evaporation, I temperature, that will enable us to regard to these great problems wh

Perhaps the most complete mer nowned French scientist, Mons. I than forty years was an active mer in France, and who died in 1878, a

In the Atlas Meterorologique appears the following conclusions, the authority previously quoted:

- 1. Great clearings diminish the flow in a country.
- 2. It can not be said that this di minfall, or to a greater evaporation combined, or to a new distribution he agrees, differing only in the on Warder, of Ohio, and others who

creased but is seage of the w ice they reach the lands were

r further consite line of invest questions for u

mmence forests and, remises to hush ents for the futs a firmly believe e should begin tion of those wi

lity of such a being forearn and if we would be of so much ve department of people are in ent interferes w

n obliged to guifting sands on hich so affects

preservation of eping stock ou we can utilize forest trees at his we find a grot size. These, te of service in rain-fall. To the partly decays

ash and small to ve have not the alts. Fires must not be allowed to run over often does immense damage, even if the and the large timber seemingly unaffected, as carefully as our meadows and crops.

PRACTICAL FORESTE

The definition given for this by C. Y. Scotland, is one very applicable, and I I "the growing of the greatest quantity of the timber in the shortest period of time." 's important, for says he, "if one forester can valuable in fifty years as another can grow years would be thereby gained, which we of the producing cost."

By practical forestry, we understand solid phalanx over certain defined areas, belts for shelter, called "sheltering forest and ornamental groups—" ornamental for primitive shrubbery and propagation—' These latter have been practiced to some State. But the former is the part which and hope to see begun.

The question arises, what shall we plan genera kinds of trees and varieties of each much simplified when we know that then to any one soil and locality is comparative Yale College, in Walker's Statistical Atlas States we have only 300 indignious species thirty feet in hight, and in the region inc have but sixty to sixty-five species that Different species are found on different ge connection with the question "what to p consult our geology and original forest gro do well, but we must prove them before Our original forests have furnished excelle red and yellow oak, two or three species o nut, etc., etc., each of which, if planted wel a comparatively short time, furnish tim Then, we have several species of conifer larches, each of which has been tried in ot what in this, and have done well. These too fertile, and will succeed. Larches est anywhere. One man in Nantucket plan locust has been tried and does well; but h less hardy, and of which ns, and even willows, mi

O PLANT.

from the seeds, a little prep very much like that of the shaded by means of lath o ase with all the coniferse, and f we take seeds of maples, as what small and winged see z trees, we must, of cours under two inches of soil on ated as corn is planted, care sp-two inches is plentya sand or leaf mold over According to English fores ey are to grow and then no of elms and maples ripen i ood growth the same season i nursery rows or beds and In transplanting, from ! cre; and, as a rule, men usu .n; 4x4 gives 2,722 plants pe Professor McAfee, of the Io d), prefers 31x31 as best fo ood, so largely planted in th sultivated for the first three rieties perhaps longer. ddress on "Grouping in F of points that are to the poin t authority, I produce ther i, but will apply equally

a grove until the ground

ge thickly and all at the san * * * cheap trees, if you

B are fairly started, and whelt to the windward, you ment something better. If cheap trees have become a term in the luxury and comparive evergreens."

at burdening your part, that he recommen kinds, although in sc

TREES FROM '

ope, some men take an price per acre, and in Scotland. H. and

WOH

hould we manage ou e great problems, an tions. The trimmin with care. Some ne ever, severely injure a too much at one time ; carefully noting the at one time are detri the Highland and A essay on "Thinning try." The plantation e of some larch and , after thinning, the l assumed a faint ligh ented a clustered a tore thinning. Some influence, and other be cut down. "Aft mining the whole ca n that the thinning, s

r plantation is mental growth, and had not ars. After thinning he important place a cut down; after the natural color, and is a seems to be an exemsively grown, as in uning with impunity

ng for profit should n t to make all he can nd poorer specimens where it encroaches too much upon its neighbor. You may think that Nature will attend to this matter better than you. Better anlicipate Nature a little, and thus help the matter along. Every year gained is money in the pocket of the producer.

RAPIDITY OF GROWTH.

Under this head, I can do little more than to give you some experiences of those who have been in the work for some time. Let me say, however, that timber can be grown to a fair size much more quickly than men generally suppose, and especially if the best of surroundings are given. Prof. Budd says that the ash, when twelve years old, will, with proper culture the first four years, make a grove of 1,200 per acre, averaging eight inches in diameter, and that by cutting the stump close to the ground and plowing a light furrow on each side, a second growth of more value may be obtained in eight or ten years thereafter.

He would plant as thick as corn, and at the end of six years take out each alternate row, north and south, and at the end of ten years each alternate tree in the remaining row.

The following table shows the growth of several specimens exbibited at the Centennial, from Iowa:

Acer dasycarpum, (silver leaf maple) Negundo aceroides (ash leaved maple) Larix Europeæ (larch)	ð 8	0.97 1.00 0.46	8.75 9.00 4.13
Ulmus Americana (white elm)	{ 9 9	0.62 - 0.48	5.67 4.88
Salix alba (white willow)	`9	1.20	10.87
Castanea vesca (chestnut)	12	0.74	8.88
Juniperus Virginiana (red cedar)	24	0.34	9.25
Jugians nigra	9	0.59	5.37
Pinus resinosa (red pine)	13	0.54	-7.00
Pyrus Americana	17	0.34	5.87
Populus alba (white poplar)	6	1.48	8.88
Shepardea argentea (buffalo berry)	12	0.38	4.62
Populus alba	22	1.28	28.50
Populus dilatata (Lombardy poplar)	10	1.67	19.75
Pinus resmosa	19	0.56	10.63
Pyrus malus (apple)	33	0.54	17.88
Pyrus malus (apple)	9	0.60	5.50
	:		

BOARD OF AGRICULTU

you some comparative ic , perhaps, ready to inquirhe Chicago Tribune, only notes on this tree which he y transplanted, rapidly-gre appearance, and of great v ery day a tree of this kind, ears ago. It was once bro fourteen feet high. This reet. In cultivated ground t uncommon. A lawn-tr r., Princeton, Ill., from a n diameter of trunk. I a catalpa, grown in blue g i diameter of trunk fourt The tree was nineteen 1 es the catalpa is remarkab ood. It is light and rathe y timber known. Fence y years' use. A specimen of which there is good evice ring 100 years. Only the d away by decay, leaving e er hand-the only eviden es used for grapes, about (common or tender variety University, rotted off in t soon afterward thrust in

aily worked, susceptible of n and color. It is said to es and holds the spike wit case, what better can we contains catalpa, with some of the f planting pines. The prears' growth, as reported thirty-five feet high and is not an isolated case rapid growth, is to be true, then where

u that is better than more ended to. I will refer yo

man for investing his car

of Indiana's honored men, who has served the people long and faithfully. Dr. Furnas, at the recent meeting of the Illinois Horticultural Society, is reported to have said that he could borrow money at eight per cent, buy land and plant trees, and in the end make 400 per cent on the investment. (Chicago Tribune, December 29, O. L. B.)

Without stopping to inquire into the pros and cons of this statement, I will give you the prospective profit of some men who have experience in the matter and report the same. M. L. Dunlap, of Champaign, Illinois, gives the following account with an acre of larch, partly prospective, of course.

To trench plowing	\$ 5	00
To harrowing and rolling	2	00
To 3,000 plants	30	00
To freight, \$1; spade and setting, \$3	4	00
To cultivating	4	00
To hoeing the young trees	5	00
To cultivation five years	15	00
Total drs	2 65	<u></u>

The cost of land, interest for six years, taxes on the above account for five years, amount to \$125, making a total of \$190. No labor being required for six years more, we simply add interest and taxes. This gives an amount of \$320. Allowing for a loss of 500 out of the 3,000 plants, would leave 2,500, from which 1,000 can be thinned, making 1,500 posts worth \$320, after paying for cutting. Thus we see that in twelve years the partial crop will have paid for the land, taxes, labor and interest, while we have a crop of 1,500 trees left standing, together with the land. In twelve years more he estimates the timber large enough for railroad ties, when he thinks the land and timber will be worth \$800, counting ties worth fifty cents each. (Ohio Agricultural Report, 1871, p. 55.)

Dr. Warder, in a casual remark before the State Horticultural Society, believes that one could leave no better legacy to his children than to plant black walnut. After a few years the nuts will sell for a remunerative price, and the timber be left for final sale. A gentleman from Illinois corroborates it.

There being little question in regard to the profit, how can we awaken the people on this important question? What are our duties in regard to the matter as societies and organizations? In Europe, on the continent, the matter is reached by the assuming fo

BOARD OF AGRICUI

rtance of this subject. Laws as nd growth of timber by individuland, prizes are offered by the sexperience in several lines of for number of subjects, as [here the prize essays, and prizes offered 1877 Report of the Highland atter of societies offering prizes in the second s

As far back as 1803 the Mass of Agriculture foresaw a scarc one submitted to the best farmers the growth of wood for timber tion in your vicinity? If not, where gainst future scarcity?" Shortly as for planting timber and in that the time would soon come this land without planting two covered testify to the wisdom of

OUR POOR LAND.

York the Society for the Prome ufactures, addressed a circular t following, among other questions and grows scarce, would it be prories and to transplant, hickory, so for fencing and fuel? Or wou white thorn, prim holly, yew, or at and turf for making fires?"

men and these societies, in that ar squarely in the face, before the scarcely died away from the ce the red men were still in force is an organization, to begin to stire er cent of timber supply and the? It seems to me that our duty Our Department of Agriculture the subject; let us do the same, interested in agriculture and dessors doing a work that only seciate. The Bussey Institute, a University, and with Prof. Sarg

partment of Forestry, and with an arboretum at hand—the first in the country—is doing a grand work. Our western colleges, in Kansas, Iowa and Illinois, have already done much to encourage tree planting, and in the almost exclusively prairie States their efforts are appreciated and much is being done. The legislatures by passing laws, have done much to encourage the work. Might not our legislative assembly lend a helping hand, if something has not already been done? We have already done some planting at Purdue University. We hope to do more. We shall try to arouse an enthusiasm among our students for this, and thus aid the work. We shall also, from time to time, make careful observations and measurements of different species of trees, so as to give relative growth, etc.

I have before me representative men from a large proportion of the counties of our State. Can not we each do a little by planting a few trees or influencing others to do the same? May we not have our Arbor day, as do some of our sister States?

In conclusion, let me urge you to plant trees. Plant! though you may never expect to pluck the fruits, gather the nuts, or garner the timber. Plant! for the influence on our climate. Plant! for shelter from the bleak winds. Plant! for shade for yourself, your children and your animals. Plant! for the æsthetic influence on your family and your neighborhood—for ornament: Plant! of every kind, that some may thrive. In fine, plant! that future generations may rise up and call you blessed. We all plant in faith in the unseen ways of a Divine Providence, if we expect to reap before the close of a single season. Let us, then, increase our faith, and sow and plant, expecting to reap after many years.

In the words of the wise man, I would say: "In the morning sow thy seed, and in the evening withhold not thy hand; for thou knowest not whether shall prosper either this or that, or whether they both shall be alike good."

Time alone, which is the revealer of the secrets of the future in all things, shall show the result of our labors for good.

The essay was well received. Messrs. Lockhart and Johnson strongly endorsing the suggestions advanced by the author, and so expressed themselves in the discussion that followed the reading of the paper. Dr. Stevenson, however, remarked that he had always preached against the preservation of timber to the exclusion of tillible and pasture land, and he was not ashamed to maintain that position now. Many years ago, when he settled in this State, the country was covered with big trees, and where trees grow corn

BOARD OF AGRICUL!

v, and cattle can't be grazed to as at the best thing to do was to kil wheat or two years pasture for u keep standing there for fort pends upon her cleared lands, as trich while Indiana got poor. I es and had to cultivate her last. Indiana is making some gain, of our timber.

ot do to say that it will not rain as much rain now, with less

With our corn fields like you me influence on the weather. ie land in corn and wheat than sheat will hedge the fields and pressary.

ries advanced by Dr. Stevensor ussion and good-natured crossat, in referring to early prejudtich was enjoyed by all present.

CATED INDUSTRY.*

IOSS, PRESIDENT OF THE INDIANA UNIVERSITY, BLOOMINGTON.

I can not claim any right, except a very ree of any occupation of mine, to address you on
culture. What I do not know about farming
y much larger book than what I do know, alr that, a good many years ago, I did have someurming. In one of the southern counties of this
id, it was my duty, if not my enjoyment, to be enactices at least connected with your very honoraminded, on coming into the room, in looking at
ens that you have, of a plow that I used to follow
ago. I followed at a distance, my business bee grains of corn were put in their proper places.
oned plow, such as some of you have seen. I
some of you could supplement my experience

cation is a very large one, and one that has occumy own thoughts. What do we mean by eduli with industry? If I can have you carry with aght that is in my own mind in regard to the n, I ask you to sum it up in three words. EduTruth, Beauty and Goodness. I am not now ocess of education, but of education as gathered d in these three words that I have uttered.

the greatest characteristics of culture which can is a love of truth. Whatever there may be of being known. One great part of this which we stimulate, strengthen and cultivate the mind of The capacities and powers of man are such that upass the universe. There is nothing this side

ed before the Annual Convention of delegates from the of the State, January 5, 1881.

of God that he may not know, a he may know; so that we desire in all our schools, to give, if knowledge, this yearning after to truth of law, truth of religion, time comes for the youth, whice over, to step out into the wide tons, I say to myself: If that yearning here with the thought that completed his duties and finishe has been wasted. If he or she is after knowledge and truth, then ever little the store of fact accuming with this thirst after knowledge universe is before them.

I am thinking of that in conntion. I want the plow-boy rearctunities may have been very meaplow or by the workman's bencthis desire for truth and knowled

BE.

You have noticed again and again of our manufacturing towns, per only one or two rooms. You ha by the door. You have seen inc thought and heart and love ther that home was a delightful place political economists leave out of you must put into the working and the thoughts of love, and t ment, in that which he has, and (It seems to me that we should tear beautiful is a duty before God; are beautiful, and that are so con us, so as to make life a charm. beautiful in man, that may be c tractive. I say that is a part o part of the unconscious influe teacher in the home or in the unconscious influence that ray more effective than the highest be attempted on the teacher's par

I want to speak of "goodness" as a part of this thought of education as applied to industry. What is goodness? It is subjection of the will. So that in our training there is not only a training of the brow to think, not only a training of the hand, but there is a training of the heart. The intellect, the sensibilities and the will are to be cultured, so that man may stand disciplined and master of himself, so that he may be possessed with a conception, not only of knowledge and of the attractive, but a conception of goodness, of duty, of obligation, of right. Let us take these three thoughts, that education means a love of truth, a love of the beautiful and a love of goodness, and see how they may be applied to industry. I do not think that we can classify work and working men for our purpose. I thank God that we have no right to speak in this country as they do in Europe of the working classes. There is no working class and no governing class here. I think it is coming to be understood, more and more, that any man who eats the bread of idleness is a pauper, and that industry means industry of the hands or head —it means work. I do not hesitate to say that every calling in life is dignified by the motive with which it is chosen. It takes on dignity and character from the motive which animates and controls the man in his pursuit.

When I speak of industry, I speak of it in a general sense. I say we want our industry educated. We want it to be the thought and purpose and aim of our great commonwealth that our industry shall be educated in the sense in which I have spoken of it, that is, filled with a love for knowledge, a love for the beautiful, and a love for the good. Why should we make it our steadfast purpose, in all our thoughts, in all our professions, to see that our industries of all grades and ranks, shall be cultivated, educated and disciplined?

The first reason is for the industry itself. We are being made aware that we live more and more in a competition for the markets of the world, and for the control of the industries of the world. I do not know what your thoughts may be in regard to the question of free trade, but undoubtedly, sooner or later, the entire markets of the world will be open to all the industries of the world for the purpose of a free rivalry and competition the world over. How is the competition to be decided? Who is to bear away the palm in this rivalry among the industries, for the markets of the world? "Well," you say, "that the industry that is found most sober, most faithful and most efficient will, undoubtedly, in the long run, take the palm." It can not be otherwise. I saw, not long ago, in the London Times, a correspondence with a large contractor. Some one had asked him the question, why it was that he sent to America for his locks. He was buying thousands of dollars worth of locks a year. He said in

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answer: "I will tell you why; because I of drawings and write out my specification across the Atlantic to the American mant them filled to the letter. I can not get a who can understand my directions." I clew as to the direction of things. I ask are driving out Swiss watches in Switzerle think that it is by this rivalry of trained a balance is being decided in our favor. I free competiton among the industries world, that it is the educated hand and be spicuously and prominently the palm.

I saw, not long since, a correspondence representatives of the British governmenside, wanting to know why it was that Ame the English out of the Chinese markets in ton goods. The answer was, that there we American goods than in the British; there fraud in the manufacture, and it was fou Chinee, that an honest piece of calico wo dishonest piece.

We know that in the division of labor us there is a tendency to make a man a part know there is undoubtedly a depressing into eliminate the manhood out of him and machine. We must guard against it. The loom, week in and week out, must, in som absorption of himself into the machine Why? It is for the sake of a better m itself. There must be no decay of the this save the man, boy or girl from thus bein terrible machinery that is manufacturing out our lives at the same time. That can the sweet influence of culture and educati

The second reason why I wish to urge to of us stand by ourselves. We have to co and my getting on in the world depends neighbor as myself. We talk about the conjust notice the composition of that term. It is a common wealth which we are all conditions and the interest is one. One of the most into learn in life is how to work with other again and again, how much difference it is a man whether he is able to get along we

ng to his people and he brought in the thought of the character of a good many people, and he pictured it striking, vivid way, and then he made the application. y brethren, I have no doubt that there are a good that the best thing that you could do for the prosperity would be to die and get out of the way." That was of that man's preaching, and he has been pastor of or forty years.

ided of another story that comes to me from boyhood, to bragging to a neighbor farmer about his wife; said ie best woman I ever knew, and the wonderful thing that she is so good-natured that she never gets out of

d the neighbor, "I can tell you how to fix her; you a load of crooked wood and see what she will say." d he, "all right."

he wood was needed he found some very crooked, s and took them up. He deposited the load and the p, and he waited for the result. No explosion occurred ne next, or the next, and he began to be filled with as-The wood-pile began to give out, and by and by it ast stick, and his wife said:

got to have some more wood, and if you have got any e crooked limbs I wish you would bring them, they fit ots and kettles so nicely."

at we want. If men are crooked they should have the of a twist in them, the kind of twist that will fit s. Therefore, I urge upon you to give serious thought of education. I ask you to see to it that the youth of nity have the best possible opportunities, and that they occupied for the sake of others, in order that they may live with their neighbors and friends. Let me repeat that I have given you, that we are dependent upon or our prosperity and success, and the prosperity of endent upon us. I can not live in a town if there is , vice, crime and ignorance, which is the parent of them that bring into this commonwealth to-day a man of refinement, without its enhancing the value of every ommonwealth; you can not bring here a fountain of ion or evil influence, without its detracting from the y acre of your ground. It is thought and culture that ner lots attractive, and that make the country attracmust see that there is that love of truth, beauty and ong us that will make a man companionable.

There is a third reason. When I speak of a urge it upon you, not only for the sake of indmunity, but for the sake of individuals, whose deepest in this whole matter. You know that the in regard to all relationships of life, that the ind that the state was everything, that the individu for the welfare of the state. Even the best of a If a child promises on birth to be diseased or burden on society, expose him on the hillsid That used to be the thought, and it is very cu a large number of the great men, the men wh currents of the -world's thought and action, I early life, infants that Plato would have expos-Take such a man as Sir Isaac Newton, whose in it was not thought that he could live, or such a But we have reversed that; our thought is jus-It is to this opposite thought that I ask your atte for the individual, not the individual for the statutions of modern society are for the benefit of for his protection. Take the great interests the take the home, the school, the church, and 1 society that we call the commonwealth, and wh are simply so many instruments for the advance of individual man. You have only to find that, influence or action, the home prevents the int growth of the individual members of it, and y strong arm of the law. You have only to fine dwarfing, hindering or corrupting the mind and instead of promoting and advancing it, and yo If you find that the action of the church is suc you have such control by the lever of public strong arm of the law as to close the church. state, by its organic law, or by its administratione great object for which it exists, that is towards intellectual and moral perfectness, yo and you see at once the truth of the great p thus endeavoring to present. The idea running ern society is that these great institutions of n der the providence of God, are but so many a vancement of the individual. With this thou grandeur of man stand before us? I am in great Scottish teacher who wrote over the d Edinburgh, "On earth there is nothing great great but mind." With this thought the greatness of the individual man is before us. Of what is he

lewton; parents and friends watched over his flicknowing not what moment it might go out. You gain, years after, as he goes from world to world to planet, and sun to sun, pinning system to system aw of unity of the universe, and seeing it in his evolves in order about the throne of God. What is extween Newton, the puny infant, and Newton in his sy, it is development and education. It is the trainrs of thinking, and his powers of willing. The poet he said:

ture and nature's laws were hid in night, d said, Let Newton be, and all was light."

Have you ever noticed the opening of any of the your community? Did you ever see some poor, ed son of some widow that lived up some back road, noticed barefooted, but somehow or other there bout him that attracted your attention? By and it, his opportunities are few, his facilities are rele how the thing is in him, it is there. The germ is and bye it begins to extend, and this poor boy rises is picuous, and he makes his mark. This illustrates there is in a man that which is worth saving, and which is worth perfecting by this process which we culture.

to you about education and the education of our our laboring men in our shops may have, in some into their minds this thought, that they may have of that which we call culture. They may have it, have it, for the benefit of their industry, for the benenuity, and for the benefit of themselves.

thank you for the opportunity you have given me o-day.

e thanks of the State and Delegate Board of Agritended to Professor Moss for his able address.

m.—More than two thousand years ago a Jewish w can we get wisdom and hold the plow? He tion the possibility of it, and that thought has lived

along down the centuries until to-day. Why farm, holding the plow and driving the ox and respectable labor as any other department has been, and we complain continual educate them, leave the farm and go to the pursuits, and we lose them. You ask why it

There is more downright drudgery, mor labor in the life of one physician than in the ers; but yet, it is honorable and respectable are crowding into medical colleges. What labor of the physician is educated labor, and nified, and by that we mean that he knows thing he does. Place agricultural labor on twill be as respectable and just as honorable into it just as they do into the professions no ence involved in raising one crop of corn that tice of medicine for years. There is more so aging a farm than there is in geology or m want to-day is for the farmer to understant everything.

RT COMMITTEES AT FAIRS.*

HON. ROBERT MITCHELL, OF GIBSON COUNTY, IND.

iportant to have experts as committeemen to pass on t our fairs?" This question will be more easily decided irst come to a clear understanding of its terms. Let us erefore, what is intended by the term expert? Strictly the word is an adjective, and denotes a quality. It prience; that is, knowledge obtained by practice. Hence, ce of skillful adroitness—readiness. But, then, the word from its general to a technical use, and as such, it exrofessional knowledge. The doctor is an expert in medattorney an expert in law, the blacksmith in iron, the or brick-mason in building. The word is evidently emis technical sense in our question, so that what we have this: Is it important that our committeemen on live d be live stock breeders? that is, shall they have experlive stock? are they able to judge of the horse, the bull or e hog, the sheep, from appearance, from form, from size, ment?

e many subjects of which men of ordinarily good judgommon sense can express a reliable opinion upon withexperts. Such, for instance, as the weather, various testions, the quality of a piece of cloth, timber, or the of a given piece of soil. Then, there are questions on of ordinary capacities are incapable of giving us reliable son, not from any want of intelligence, but solely from the ormation in a particular line—as we say, from a want of

question is, where does the line fall which divides the f the expert from the province of the amateur or the linarily good intelligence? Some have insisted it was ic line, and that all subjects that had been reduced ce were matters for the adjudication of the expert I the reach of the amateur, but this can not be so,

I at the Annual Agricultural Conven

there is no subject which has been thought to any extent which does science. So that the assertion of the adary, is simply regulating all questions truth is that it is a question not of sci titude. Some sciences are exact; sumee. Some are inexact; such as bro ertment of chemistry, but into which ts enter that no certain results can be nined these preliminaries, we are prep : Is the breeding of live stock a scie e amount of information relating the systematically arranged. This gives i is it not an exact science? Most sure y of them unknown enter into it, for a conclusion. There it falls outside the the line of separation is not a broad c domain of the amateur and the man .t. But it will always be best to select it aformation, as committeemen. One of s to deal with by the managers of agric of competent and suitable persons t e awards upon the various breeds of an xhibition at our agricultural fairs. Be of agricultural societies are more seve istly, too, for decisions made by comm ther causes combined, in the managem ne manner usually adopted in the selecdirectors of societies to make the select poard of directors, each one of the director ie committee, and continuing to select i filled. As all are aware, this is the sy been for years. And in my opinion th satisfaction. To illustrate: We will ne animals under consideration. Direct h, Director No. 2 will name Mr. Lewis, I Director No. 1 is a fine horseman at but little experience in cattle, having n se is not a critical judge; yet he presun on to fill this delicate and responsible t cal judge himself, how can he know h is a critical judge? He does not kn akes that are made. The principle I , in order to secure good committees, v

EXPERT COMMITTEES AT FAIRS.

the approbation of the public and inteligent stock men, the or persons whose duty it may be to make the selections sh expert judges themselves.

Director No. 2 is a fine judge of sheep. Director No. 3 i rister, with merely a casual knowledge of cattle, and yet the tlemen designate who shall act as judges. Can we wonder, th at unsatisfactory decisions frequently rendered by judges in this manner? Would it not be better for the superint of departments or classes to select the committeemen to be his department or class, and in order to do this work prope superintendent should be an excellent judge; yes, a critica of the breed and kind of animals included in his depa This system will place the responsibility on one person; he selections will be carefully made, and, as a rule, no person appointed to act as a judge who is not personally known superintendent as an expert judge. I will here say that in should persons be appointed to make awards, especially Fairs, who may have friends or neighbors among the exhi not that they would desire to favor their friends or do othe itors injustice, but that with their personal knowledge (friends' animals, with all their best points impressed on the ment—perhaps in some instances in an exaggerated mannerwould unfit them from doing that justice to other stock on tion which they would do were it not for their personal knof their neighbors' stock; therefore the necessity of s judges as remote as possible from the exhibitors whose sto are called to pass judgment upon. I would suggest in the that our judges of all the various breeds of animals be judges-perhaps what may be termed experts.

Under this system, fewer judges would be necessary, or mittee being all that would be needed to make awards thro the whole class, except sweepstakes, and even in this cla vided no animals were eligible to compete except animal received a first premium in their class. This arrangemen limit the sweepstakes to animals who were first premium in their respective classes, and would result in consistent de whereas, under the old system, it sometimes occurs that a or even a third premium animal in its class is honored 1 first premium in sweepstakes. And this fact deprives pr animals of much of that credit they otherwise would receiv evident that the selection of experts for judges, and then selected by superintendents of departments, perhaps with dorsement of the President or Secretary of the Board, w

more satisfaction than the old system.

he proposed system will place to mitteemen on one or two person result in the more careful selective to make awards. These an after an experience of twenty-five cultural fairs. Whether they are result operation is the question.

he following discussion ensued:

- 'r. Byers. I have a plan to propose d not thought of the State Fairs. county gave a fair, to send to an a them furnish a man to judge ald think that an interchange of en States.
- 'r. Lockhart. I am aware that Mr of time in preparing this paper, a ortant questions that could conk the best way to do would be to ach department to procure the jury should select experts.
- r. Johnson, of Martin. It is some in to have to resort to men from at we want is to get honest men is not to be interested parties. I I think this Board is competition.
- 'r. Nelson, of Parke. I have had a, but I think that, while the Star selection, the system that they I as any. Mr. Mitchell's suggestirequirements, if you had a good ou had a superintendent that ha is decisions, you would have very

PONDS AND POND WATER,*

WITH REFERENCE TO HEALTH AND WEALTH.

BY GEO. L. CURTISS, M. D., D. D., OF INDIANAPOLIS.

It is a common occurrence to hear people blaming and condemning the ponds of Indiana as the great source of all their sicknesses, pain and bodily ill. Few ever stop to inquire as to the relation of the ponds and pond water to the health and wealth of the State, but by a wholesale denunciation condemn them as the cause of all woes. It is the object of this paper to inquire somewhat as to the facts regarding the character of ponds.

The peculiar situation and configuration of the State of Indiana could not otherwise than give her, in many localities, numberless low spots of ground, which, becoming filled with water, and having no outlet, soon develop into full made ponds. It requires but a few months to elapse for a pond to become full formed with some of the lower forms of vegetable growths and animalcule in abundance, and only two or three years to have large growths of flags, reeds, rushes and willows. The common teaching has long been that all ponds are great cess-pools, breeding sickness, pain, agues and fevers to culminate in an enormously enlarged liver, a sallow complexion or death.

Nearly three years ago, the author of this paper commenced a careful study of pond and marsh water, together with the mud and other deposit at the bottom and on the side of the ponds, and also the vegetable and animal growths found therein. In prosecuting the study there was used a microscope, with such simple home-made apparatus as could be made out of wood, glass tubing and bottles. He had no theory to uphold when entering upon the work, but sought to make original investigations. The search was for facts, and when these facts shall be fully obtained and verified, (for this course of investigation will run through ten years if life is spared.) Whatever theories, laws or lessons are in them will be readily seen. The microscope employed so far has been Beck's Economic, with eye

^{*}Note.—Delivered at the Annual Agricultural Convention.

pieces, A and B, and two object glasses of o inch, by which a clear flat field of 500 diame

Ponds are collections of water in a basin of outlet, standing wholly or in part exposed to sun. A marsh differs from a pond in that but the current is sluggish, and heavy grasses pond lilies grow profusely within, and vibanks. For ordinary study there is no different and marsh water, but in the minute a will be found some marked differences the animalcule, and some of the lower forms. This difference, however, has not been quit require separate treatment. The two ponds of under the name of pond water.

Pond water reveals, at different times, a water is sometimes tinged with a deep gree again it is almost or quite blood-red, the occasionally it becomes a bright yellow. presence, in great numbers, of infusorial microscopical vegetable growths, worthy of cules are, of course, microscopical, and yet son so as to become, under favorable circumstan aided eye, as the water-flea, some species of th It is often observed that an immense agg animalcule may become visible to the eye as substance. The author took a bottle of wa 1880, from a pond made by an excavation of of Indianapolis, and after it had stood for an bottle, just at the water line, were covered brick-dust. The microscope revealed this su of millions of rotifers.

I. VEGETABLE GROWTHS OF POI

Here may be placed all the multiplied form In the hot summer months, and late in that the matter may be found covered with a water is considered filthy and disgusting. That scum is structureless and worthless. But the glass of 150 diameters, and it presents a delicately organized. After viewing it with the crease the power to 400 diameters, and the cuture is brought out in a beautiful form, new The coloring matter of this substance is mos with frequent broken spaces, clear as crys

light is freely transmitted, showing the beautiful and intricate structure. This is a vegetable, and has received the general name of algæ, and is very delicately organized. Algæ found in fresh water ponds is to fresh water what seaweed is to salt water. The colorings are as varied; the structure as delicate; the forms as multifarious as seaweed. The kinds of algæ of the ponds are many, but the author would only refer to those he has found and examined.

One of the most common forms of alge is the oscillatoria, found in most ponds and marshes, and called by the boys "frog spittle." It is composed of long "tubular filaments," with sub-divisions or joints, each joint being a cell. In the water its movements are waving and graceful.

The conjugatese is composed of interlocked and intergrown filaments, with two winding around each other, and then separating to wind around others, and these again around others, forming a kind of lock-stitch. In other species there is a net work, the sides joining at their extremities in five and six and occasionally more joints, leaving an open space or meshes of a pentagonal or hexagonal shape. This form seems to be somewhat rare, as the author has only met with it but seldom.

The confervæ is composed of slender filaments, but is not found erect like the oscellatoria, but always in a prone position. It is dark green, small cells, many-jointed, and sometimes presents the appearance of an internal spiral cell running its whole length. The author has been able to draw out one of these filaments, not more than the one-hundredth of an inch in diameter, to fifteen inches in length. This form of algæ may be found in cold and freezing weather when ice is forming, and is as green and healthy as ever, with millions of animalcule hiding and living in its ample folds.

There are other and even smaller forms of algæ that are as yet unnamed found in many ponds, covered more or less in a gelatinous substance. Some are notched or toothed like a saw, others are furnished with short hooked, spines, and occasionally some terminate in many branches.

Diatonus form another exceedingly numerous class of vegetable bodies in all ponds, marshes, ditches and cisterns. They are unicellular, which, by deposit or in the growth, become silex or a flinty matter, and where iron is found in the water there is a trace of iron in their valves. The envelope of each frustrate or cell becomes covered with most elaborate and beautiful marking, and consists of two valves or plates, closely applied to each other, like the valves of a mussel, along a suture or line of contact." In shape the valves of the diatonus are exceedingly various. They are square, round,

triangular, heart-shaped, boat-shaped, zig moon, like the letter S, etc. In color they riety, ranging through green, red, orange, dotted with spots of other colors, which, con markings under the miscroscope, present at of study.

Diatonus are found in all surface water, The different kinds have been named, untidred or more, and still new ones are being scopists.

The author has taken ditch water, known tonus, and boiled with an equal part of chloric acid for fifteen minutes, then decant added an equal part of the same acid and and then evaporated a drop of this liqui placed under the microscope found the dia of preservation, cleaned of all gelatinous the markings in the silex as distinct and be as the finest engraving by machinery shown

A bottle of the same liquid now, after the mens as beautiful and perfect as the day th

This characteristic of indestructability ac deposits of fossil and diatonus. It is foun of Victoria Land, 460 miles long and 120 br cious valves of diatonus." "Under Richmon is a deposit twenty feet thick." The polishir so small diatonus that, in "a single cubic i found." In speaking of the mud deposit tonus will again appear.

Among the protophytes is found the slightly crescent shaped, green in color, i dots, having at either end hairs, and showi between the inner more solid substance and grows by segmentation. These are not r numerous as the diatonus, and yet they for in pond water.

Besides these are found monads, as "twi infinitessimal, like a single point, and so col mass as red or rust-like patches; the "grap cause there are a number of cells united by a common foot-stalk; the "green-eyed monanished with a single cellisem, and the "revol which appears like a revolving globe filled so many eyes, and by the aid of one and

around with strange rapidity through the water. This has been often mistaken for an animalcule.

So much only describes a small part of the vegetable matters found in pond water, the natural home of a thousand and one curiosities as yet undescribed.

The relations of these to health will be apparent. The green scum growing on standing water, and the algoe growing so rank in the water, is nothing more than vegetable matter of the most delicate and beautiful organism. It is constantly eliminating from the water the deleterious matters, and thrives on that which would otherwise produce great and deadly sickness. The presence of the green scum or algoe may be taken as a sign of healthy water. The diatonus assimilate certain elements they find in the water, and by some as yet undiscovered chemical process, use them to the formation of a solid shell, surrounded by a thick gelatinous or vegetable growth. So all vegetable forms found growing in pond water or around the margin of ponds, are constantly eliminating deleterious gases and utilizing them for a healthy and rapid growth. Remove from water all vegetable spores and the growths therefrom, and it will soon become deadly indeed.

In nine cases out of ten, where the pond water is covered with a green scum of alge, the water beneath will be found clear as crystal. The author was riding in the country, with a gentleman of some attainment, when conversation turned upon the unhealthiness of standing water. They were then passing a pond where the water was covered with a green scum. Said the author, "That water beneath the scum is clear as crystal." The gentleman assured him it could not be so. To test the matter, the author took from his buggy a quinine bottle (he goes around with such implements to secure any chance specimen) and plunged it into the pond and brought up green scum and water. The water, held in the sunlight, sparkled like crystal. Had there been no scum growing or no spores of alge to produce the green scum, the water would have presented a muddy or milky appearance.

It may be repeated, that vegetable growths, while in the water and growing, are not unhealthy, and can not be productive of malarial fever or any other disease by any influence they can have upon the air.

The drinking of water charged with any kind of vegetable matter is undoubtedly injurious.

II. THE LIVING ANIMALS OF POND WATER.

Of the fish—for sometimes these are found in pond water—it is not needful to speak. They are large enough to be seen. Some-

times water dogs, frogs and animals of that chara numerous. The frogs speak for themselves, and tion.

Among the largest and first of the animalcule bearing no resemblance to the house flea, sometilarge as to be seen with the unaided eye. It has and soft legs, arms and feelers. Its movements at of its size it never becomes in any way dangerous

Among the numerous infusorial animalcule ar animalcule belonging to the polyastric or many. These have a bell-shaped body, with a single or do around the open part, which may be esteemed are endowed with the power of rapid motion, for producing currents of water, by which smaller and drawn into the stomachs for food. At the othe tached a long cord, generally spiral, yet sometime is attached to a stick, by which it is held in play scopic animals are numerous. The author has for water so that one drop was the home of more that them.

The trumpet-shaped animalcule is very numer of some localities, also the tree shaped, and the meame family.

The family of rotifers or whale animalcule in umerous. The author has found them of varinumerous as to give color to the water, and when sides of the glass or bowl to seem a ridge of sand, of paint.

The eels and jointed worms and saracena are all pond water. The eels are about the same as a found in the "mother" of good cider vinegar, or putrid paste.

The euglena almost always has a blood "red eybe readily distinguished by its elongated form, ha cillium, occasionally two or more, by which it sluggishly through the water and among the alg seems to feed. This same animalcule the author ulent pus.

The amæba or proteus, a jelly-like unshapely the lowest of animal life, capable of surroundir sorbing it, is exceedingly numerous in pond wa and kinds of animalcules inhabiting pond water l determined. New forms are being discovered by n year, and old ones are being lost to sight, so that inhabitants of the ponds are as great as the changes being wrought among the denizens of the forest. In pond water changes occur by the month. In January, no matter how cold, some forms of animalcule are to be found: Freezing does not kill them. In February there is a slight increase in numbers and forms. In March there is a perceptable increase in algæ, while in April the season of activity sets in. In May the microscopist finds delicate life forms not before observed. Each weed and spear of grass is formed the home of busy animalcules, and in June there are rewards for patience and careful search with the glass that are marvels of wonder. The depths of the ocean can not reveal any more wonderful sights than are now found in any of the ponds. From July to September is the season for the largest animal growth and their most active multiplication. This is true of both animal life and vegetable forms. It is also a period when death is running riot among them and they cease to exist by the myriads, and their carcases fall to the bottom and mingle with the mud or sediment, there to be entombed. From October to December some forms develop, or rather mature, deposit their eggs in places of safety, to be hatched out a few months hence. This is really the period of greatest death, and most rapid accumulation of skeletons in the mud deposit.

The question now arises as to the healthiness or unhealthiness of pond water, so far as the anamalcule or living animal matter is concerned. Whatever of decay there is of animal matter, the gases thereby formed are taken up by the vegetable algae, diatonus, dessuids, etc., and utilized by them for growth, and but a small portion of these gases can ever reach the people who live on the shore. It is not from the gases or vapors that diseases may or can come, since these are caught in their passage before they reach human lungs.

III. THE MUD DEPOSIT OF PONDS; WHAT IS IT?

After a careful microscopical examination of many specimens of mud and sediment, the author finds it to be composed of four principal things:

- 1. There is some earth that washes into the pond from the sides or banks by the fall of rain.
- 2. There are remains of vegetable matter, as portions of algae, the valves of diatonus and woody fiber from larger growths.
- 3. There are remains and skeletons of dead animalcule that have not been disintegrated since the extinction of life. Indeed, some of these remains are indestructable, and remain for centuries, to become the fossils of future ages.

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There are large quantities of gelatinous substand designs of which is not certainly discovered.

Mud banks that have been for years accumulati these deposits, and become a remarkably interesting This deposit, when removed and spread on the land nure of inestimable value. Or when a pond is d sides and bottom are cultivated, it is found to be the and yields abundant crops.

Ponds, in the constant accumulation of animal, we licious deposit, are a source of wealth and not an un

IV. THE RESULT OF DRYING UP OF POI

Pond water, under the influence of the sun's rays. The animalcule then becomes dried, shriveled and necessarily dead. This dried mud and these lifele together with the thousands of eggs they have de mud, become dust, and are blown about by the wir and weeks in summer and fall are the sport of every are some of the thousands of motes floating in the a seen so vividly in a ray of sunshine falling into a 1 crack or half-open door. People inhale these. T food and are eaten. They fall into the water an them. As soon as they come in contact with the body anywhere, they are revivified, and become as They enter the blood, many being indigestable, thro of absorption by the lacteals, and find their way 1 every portion of the system. May not their prese many of the phenomena of disease?

Take an illustration. The author assisted, in 1879, to evacuate a cist in a lumbar abscess on a gentlema Indiana. The operation was with a needle and pus was thick, bloody and having somewhat of a fa Specimens were put in two different bottles perfect

The operation was performed between eight and night. By eleven o'clock the same night a careful amination of the pus had been made. In it was for ent forms of animalcule. 1. Vibrous; 2. A ver moving animalcule about 1-30,000 of an inch in d Numerous specimens of what appeared like the quently discovered in pond water, moving in ex manner as when in their native element.

What was the origin of these living spots is as yell That the dried mud or deposit of pond water coules which may be resuscitated or revivified, is su demonstration. The author has taken dried mud from places where ponds have been, but where the water has been dried up for months, placed it in a bottle or dish, and poured over it pure water, and in twenty-four hours had resuscitated as fine a crop of animalcules as the most ardent microscopist could desire to examine. These again have been allowed to dry up, and after weeks been resuscitated again. Prof. Brocklesby, in his "Amateur Microscopist," makes the statement that Prof. Owen revivified animalcules after lying dormant for years. Maulett revived the same specimens twelve times, and Spallauzani for fifteen times, but beyond this he could not go.

Thus, after a somewhat careful survey of the subject of ponds and pond water, the author reaches these conclusions:

- 1. That ponds, as long as they are filled with pond water, are not necessarily unhealthy, and do not breed disease. In all cases of great malarial sickness or typhoid fevers and many cases of diarrhoea in the neighborhood of ponds, the cause of disease is found in drinking the pond water, or the draining and drying up of the ponds have set afloat in the atmosphere immense quantities of animalcules and microscopic fungi, which being inhaled, produces the disease.
- 2. In case a pond is drawn off or dried up in midsummer or the fall of the year, the cause of disease is the death and decay of the animal and vegetable matter, which can no longer live when deprived of its native element.
- 3. That the mud or deposit of pond water is a source of untold wealth to the farmer of the future. These ponds are now accumulating year by year, vast reservoirs of rich earth, which will ultimately be drained and cultivated as the richest and most productive lands. Even now, the most productive lands are those bearing evidence of having lain long under water. Indeed, an old and worn out field could be most easily and surely rejuvenated and enriched by being flooded, and remain a pond for a few seasons. It might be sterile when the process was commenced, but after such a treatment it would be rich and productive.

Finally, ponds and pond water are not the unmitigated nuisance the world is generally taught to believe they are. They are not objectionable to health, and are resources of wealth.

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DITION OF AGRI

ALLEN COUNTY.

is getting to be our leading cere as harvested the past year. The e, and the grain of a superior quary good year for farmers, and i y have been receiving the past fa atisfied. They have been getting orn 45 and 50 cents per bushel, and other products in proportion of improved and thoroughbred living have in the county several it is and Jerseys, and almost every digraded stock. We have lately im be quite an advantage to our farm

W. W.

BARTHOLOMEW COUNTY.

The Bartholomew County Agricultural Society held their twenty-fourth annual exhibition, on their grounds at Columbus, August 31 to September 4. The weather was rather unfavorable, but there was a marked increase in the interest of the fair over last year. Although the receipts were not enough to leave a balance in the treasury, there was sufficient to pay all the premiums and other expenses of the Society. This encourages the association to do still better next year.

Our ground is composed of a beautiful tract of twenty-seven acres, of well watered and shaded land, situated immediately adjoining the city and is held in fee-simple.

The land in this county is well cultivated and produces abundantly. The different branches of the east fork of White river flowing from the north to the south, having good fall and graveley beds, drain a large amount of bottom lands that are in a high state of cultivation. The uplands are generally well managed. Quite an amount of draining has been done and the good work still goes on.

The crops the past season were not very satisfactory to the farmers; the wheat crop was an average, or above an average, but the corn crop was below an average on account of the drouth, the potatoes almost an entire failure. The acreage of wheat was large; the acreage of corn not so large as usual, but was harvested in good order; the hay crop was the best ever harvested in the county. The drouth through July, August and September was the severest that ever was known in this county.

John Doup, Secretary.

BLACKFORD COUNTY.

The Fair ground, containing twenty-four acres, is beautifully located just north of and adjoining the town of Hartford City, the county seat of Blackford county, Indiana, with one of the best half-mile tracks in the State and all the modern improvements, having ample accommodations and shelter for stock, plenty of stock water and good drinking water.

Mechanical Hall and Fruit Hall being filled and well managed were an especial feature of the Fair. But the crowning wonder was Floral Hall, under the direct supervision of Mr. T. P. Van Winkle and his lady assistants. With its wealth of flowers, ornamental needle-work, canaries and pretty girls was enough to almost

nvince the writer that single acked up to be."

The large and elegant display nce the most skeptical that t ugs," would soon be numbere The showing in cattle was lar ents made by our farmers in ove conclusively that the most pidly superseding the inferion.

The large and splendid exhibite hogs and their crosses, togeds, are sufficient to establish tacks" are numbered, and must he showing in sheep was unusiness of wool growing is appropriately expersed all other business. The exhibition in the poultry ex-Senator Bonham, was simple of the many splendid varieth controlling that departme it. Bonham that the "old bar prect.

The condition of the agricu rown apace with the growth o deed, extremely favorable. O improved machinery, and by on our last Fair was so much y the experiment for four day hen our "latch string will alw pecial invitation is hereby t ader, to "come and see us."

BOONE

The sixteenth annual fair of ral Society was held at the grom, commencing September he weather throughout was g nd nothwithstanding the fact esful fairs in adjoining counti

COUNTY AND DISTRICT REPORTS.

was, in all departments, very good; indeed, fine in a The various classes of horses were numerously represe finest specimens. The cattle department was represen of the most noted short-horn herds. The entries in the swine departments were quite numerous, and represent fashionable breeds. The display in fine art hall, floral the agricultural, mechanical and miscellaneous classelargest and best we ever had.

During the past year the Society erected a very corcommodious fine art hall, regraded and widened the and enclosed it with a good substantial fence, and it is turfinen to be one of the best half-mile tracks in the St

The live stock interest has taken a remarkable implast year or two, and quite a large number of the best from Kentucky have been brought here.

There has also been some very highly bred horses be resulting in benefit to owners and patrons. The san great extent, be said of the introduction of the best he and sheep. And the interest taken by our poultry fancuring the best breeds, is producing a spirit of rivalry poultry raisers.

The average of our crops this year was good; corn not in quantity, but the quality was good; hay crop good; the best condition; oats less than an average crop; good; barley very good; the fruit crop fair.

During the last year more good gravel roads were more efficient ditching done in this county than in a before. The timber here consists principally of oak beech, hickory, sugar and walnut, which is rapidly be lumber and staves, and shipped to market. The procestogether with the proceeds derived from the sale of a and farm products, have made money quite plenty and business good, the effect of which is rapidly enhancing our lands.

The county is being dotted over with good brick so and churches, and good brick and frame farm house placing the log cabins of the first settlers.

A. C. DAILY

CASS COUNTY.

The eighth annual Fair of the Cass County Agricult tion was held at their Fair grounds, at Logansport, S

5, 1880, and taking all things into consideration at successful fairs yet held. The weather during fine, the entries in the different departments average, and the attendance good.

he number of entries was 1760, and being didifferent classes made the exhibition in all y attractive. The amount of premiums aware 85.

n relation to the condition of agriculture in Car, that we have no reason to complain, but hokful, although some of the products of the soil could be desired, but everything considered, we at o rejoice; and for the amount of acres undeducts for 1880 are equal to any county in the S he crops in the county for the year 1880 were *Vheat*. The number of acres harvested was r about twenty per cent., but the yield per acre. 879; but taking the excess of acres harvested al, if not greater, than 1879, making in the aggregater of bushels as was ever produced in the cong good.

brn. About two-thirds of an average crop, by id, much better than last year. The wet weat tof the season, and the drouth in the latter, if the trop.

Not over one-fourth of a crop, and the q caused by the wet weather.

Yay. Both clover and timothy an average crop xd.

Relations. Crop short; hardly an average, but the Proof. The fruit crop was large above the averagabbage. Like 1879, almost an entire failure, to; and in some instances destroying the crop en other vegetables of all kinds were good and yie grage.

D. W. Tokil.

DAVIESS COUNTY.

The past year has been a prosperous one for ops and fair prices maketh glad the heart of see we have had. Although, perhaps, the crops in some former years, yet they were about 1

farmers are keeping abreast of the times, and abandoning the "old fogy" ideas of the past, and adopting new ideas and improved machinery. The sale of agricultural machinery during the past year was the greatest ever known in the history of our county. The sale of reapers and mowers alone amounted to nearly forty thousand dollars. Our tile manufacturers are unable to fill their orders, so great has been the demand for tile within the past year. Lands that were formerly thought "too wet for anything," now, by the proper drainage, produce the most bountiful crops. Verily, "the waste places are made glad." This county ranks third in the State as a wheat producing county. There has been considerable improvement in the stock within the past few years.

The second annual Fair of the Daviess County Agricultural Association was held at their grounds, near Washington, September 28 to October 4, inclusive. Our fair was not all we could have wished it, neither in display nor attendance, yet considering the intense political excitement at that time it was all we could reasonably expect. There was a very good display in most all the departments. The racing was especially fine. Our society is in good shape, free from debt and propose to have a "big" fair next year. We have in course of construction another railroad, running through our county, which, when completed, will be of immense benefit to our farming community, giving us direct communication with the South, as well as competition in freight charges.

Peace, plenty and prosperity.

A. F. CABLE, Secretary.

DECATUR COUNTY.

The twenty-ninth annual Fair of this Society was held on their grounds adjoining Greensburg, on the 24th, 25th, 26th and 27th of August, 1880, and was a decided success in every particular. The grounds are located east of the city of Greensburg, about one-half mile from court house park, containing twenty acres. One-half of which is finely shaded. The improvements are such as usually belong to such grounds, and are all in good condition. The grounds are abundantly supplied with excellent water. They are owned by the association and are worth about \$6,000.

The exhibition was one of the best ever held in the county.

The departments of live stock, as heretofore, furnished the leading attraction during the fair. Some of the finest show cattle in the State were on exhibition, and the competition very decided,

and to insure fair and intelligent decision matter that requires great care on the par

Hon. M. E. Ingalls, president of the C offered a premium of \$50 for the best shot petition in that particular ring was exceed

In sheep, hogs and poultry the exhibit so much so that to determine the matte the utmost care and judgment. The nu swine exhibited at our fair this year se much improvement can be made.

The class for jacks and mules was well; bition of mules was especially fine.

In the horse department this fair is lil fairs. The horses attract very general not display a fair would be considered a fair many fine specimens in the general pur draft, roadsters and matched rings, the grament centered in the daily competition speed rings. "Tis true many persons con being immoral—a subject we will not di of speed has a moral or evil influence, so to see the races some tests of speed will fairs.

Our receipts were sufficient to meet all miums in full, and leaving a balance on he

The officers for the ensuing year are: President; William Kennedy, Vice Presi Secretary; Thomas M. Hamilton, Treasur

THE CONDITION OF AGRI

in this county is good, and becoming bet are more particular in preparing their deeper, and, with the wonderful improve implements, they are better able to pulve down the weeds. A thorough system of practiced by our farmers for years past, a ties in the State can boast of so great a proved a paying investment to our farme

The crops of corn, wheat, oats, etc., cor good, the yield of wheat being very much guine anticipated.

Experience as well as observation has a proper rotation of crops is highly profital and tending to improve the general cor the question, What branch of farming is the most profitable? I think public sentiment among our farmers will say mixed husbandry, as it imparts general and useful knowledge, defies general disaster in the fluctuations of trade, and, to the moderate farmer, puts him in a position to select at will a judicious rotation of crops.

FRANK M. WEADON, Secretary.

DELAWARE COUNTY.

The Delaware County Joint Stock Agricultural and Mechanical Society held its twenty-eighth annual Fair the third week in September, commencing Tuesday, the 14th.

The exhibition of horses was first-class, and can only say, that for the number of entries the display was never better.

The entries for jacks and mules were not so large as in some former years, but enough to make a good show.

In the several classes of cattle a reasonable good show was made. The display of sheep was very fine, and a larger number than usual in the pens. Many very fine specimens were exhibited.

The number of hogs was, as usual, about forty or fifty pens; some very fine specimens, Poland Chinas, Berkshires, Suffolks, Jersey Red, and several other classes.

Our poultry show was excellent in quality, but not as large as former years and reflects great credit on those who for pleasure or profit take an interest in the raising of fine breeds.

The mechanical department was never so well represented as this year, there being two engines employed to run the machinery, which was admired by thousands of visitors.

The floral hall was filled with the finest specimens of ladies work. The ladies of Muncie and vicinity deserve credit for their exertion to make a good show each year in the floral hall.

The show of fruit was not equal to last year's exhibit, but was very fine; not easily surpassed by many societies.

Buggies, carriages, spring wagons, two-horse wagons, sleighs, of the finest qualities, were on exhibition.

The speed ring was well represented by fast horses each day; having good stables or stalls, the best half mile track in the State, as we think.

The condition of agriculture in this county is good. We believe that it will rank among the best in the State.

Corn—Did not yield well in consequence of a severe drouth in July and August. The crop is sound, but the ears are small.

Wheat—Large acreage sown; quality very g wenty bushels per acre.

Outs—Heavy straw, but light in the head; rulling.

Hay—Acreage below an average; crop good a Rye and Barley—None raised.

Potatoes-Rather light crop.

Fruit-Never better.

We paid our premiums in full.

The Fair ground is situated one-half mile a funcie and it contains forty-one acres; fencioths, shade trees, four wells of water—every take visitors and exhibitors comfortable during Muncie, the county seat of Delaware county and of White river, has gas works in full of ouring mills, two machine shops, three carricular that works all of the flax straw within reach shipped here from other counties. The town what is called bagging. There are twenty driventy-five groceries, and some five or six thous the city of Muncie.

J. M. G.

ELKHART COUNTY.

The Elkhart County Agricultural Society held mual Fair from the 28th of September to 380. More than the usual effort was made to id counteract, if possible, the overshadowin used by the impending State and Presiden ere successful so far as inducing to be presen ticles than were ever shown before by our so tendance was good, it was not equal in num revious Fair. And now, that we have survive ection, we hope to have clear sailing next yes and will be more interested in the society an eather, too, the two first days was cold, dry he were comfortable within doors had no deent in the wind and dust. The exhibit entrie interest was manifested in the fine draft orman and Clydesdale breeds, also in the m adsters and all work horses.

The admirers of cattle had a fine treat in virds raised by Rippey and Kennison.

The wagon and carriage exhibition of our own manufacturers was the very best feature of the show. The superior quality of the work is rarely excelled anywhere.

The agricultural implement and machinery department was "brim full" and being driven by ample steam power, gave exhibitors very favorable advantages to show the actual working of reapers and binders, and was of much interest to our enterprising farmers.

The exhibits in farm products were excellent—never better at our fair—but still not equal in quality to the great importance that our farm, vegetable and cereal products have in the prosperity of our country.

In the hall the ladies done their part even better than the men did outside; the arrangement for exhibits was not good, yet the superior handiwork of the ladies was conspicuous and a pleasant part of the show. Perhaps the best feature in the hall was the extensive and beautiful show of flowers, despite the fact of no proper accommodations to show them. The numerous and rare plants attracted admirers of the beautiful.

The amusements on the trotting track were fully up to the expectations of those who like to see that kind of sport, and gave entire satisfaction.

It was the aim of the managers to make this Fair so successful that enough of the revenue would remain, after paying premiums and expenses of Fair, to pay for the purchase of the Fair ground. It proved that the lines of exhibits were so full in nearly every department that most all the premiums offered were awarded and paid to exhibitors.

The receipts of the fair were	\$2,329	58
Fourteen hundred and thirty-seven dollars premiums		
were awarded, and of this there has been paid fully	1,410	00
Leaving to pay expenses and balance to apply on pur-		
chase of ground of	919	58
That amount not being sufficient to meet the last install-		
ment of the purchase price of the Fair ground, a loan		
was made in the sum of	800	00

And a deed for the Fair ground was made to Albert Osborn, in trust for the Elkhart County Agricultural Society; and so soon as there may be an unquestionable body corporate that will have power to take and hold real estate, Mr. Osborn will convey the Fair grounds to such perfected organization, subject to said \$800 debt.

The friends of the society are now encouraged, and, with good weather for next year's Fair, the indebtedness will be quite or nearly liquidated.

matter has given the managers tro ssion. It is essential that it be hig urnish sufficient funds to cover pr and leave a margin to apply on de y fixed the price of membership at ne heads of the family and certain of ms; but this ticket is, in many cases ill persons of the family and all the e of Fair, and, by some pretence or more persons than intended, and are lessened. This ticket ought to b admission ticket substituted there el strong enough to make the chan along in old ruts, whereby we are ations, and we see no way but to ke tte until the society is out of debt. se societies who have always practim tickets are fortunate, indeed. T , with all precautions and guards w d it, results in large crowds at our for it.

Ja

FAYETTE COUN'

"Eastern Indiana Agricultural, 1 Association" held its third annua ds adjoining the city of Connersville encing Tuesday, September 7, 188 atisfactory results, being the twentybefore in the history of Fayette co rous and liberal premiums offered in much interest manifested by the l conclusively that that class has been the financial interest of our fairs. 3 asses, though not large, was credita ltural and mechanical departments. ted in motion added greatly to its raged. The exhibition of horses, v showed improvement, but not so ent, being evident that the introduc would be advantageous. The agric terests in the county were never m-A. ۲.

RANKLIN COUNTY.

exhibit of horses and cattle has never been to the association. Our liberal premiums many of the best "timers" in the surround-show was small, but very good.

political campaign, with its excitement; acti Exposition, to which our people could go at a less expenditure of money than to our id last, but not least, the "wheel of fortune," have felt the sting of this viper so sensibly ed to prohibit all gambling of every descriptioned, satisfied that the deteriorating infludance far outweigh the pecuniary benefits

DITION OF AGRICULTURE.

ence in the last few years. They have learned that the successful husbandman must be an aggressive, energetic business man, even more so than the man of mercantile pursuit. By judicious selection of seed—corn and barley, as well as wheat—and rotation of crops, the yield has been increased at least forty per cent. The nature of the soil, its adaptability to particular crops, and the elements necessary to its improvement are popular themes of conversation and study. Bone dust has been used as a fertilizer on growing wheat with marked success. The wet lands in the eastern part of the county are improved by tile draining, and tile are used to some extent in the hilly lands of the western part to prevent "washing." The latest improved machinery is used. About thirty self-binding reapers were sold this season. Most of the grain is threshed early.

The live stock of the county, by careful attention and some expenditure of money for thoroughbred stock, has improved in quality at least one hundred per cent in the last six years. Our farmers have learned to look upon the proper care of stock, in both food and shelter, from an economical as well as humane standpoint.

The fruit crop on the uplands was excellent. Ten thousand bushels of peaches were harvested in the southeastern part of the county. The apples were not so abundant, but of good quality.

BOARD OF AGRICULA

nighways are receiving due attenti course of construction, and our sta ording our farmers the proper facilities for marketing their s.

of two per cent. has been voted by several townships struction of the proposed Evansville, Seymour and Be Railroad, which, if built, will cross our county from earld open the way for shipping the limestone now lying untities in the neighborhood of the proposed route.

M. A. MESS, Socretar

FULTON COUNTY.

iot with any great amount of pride I report the standin icultural and Mechanical Society for the year 1880. held its annual fair September 15, 16, 17 and 18, at Roc t of the corporation limits, on their grounds, purchase · that purpose. By reason of the bad financial managem , and the fact of the campaign of 1880 being at its great ie people of this county seemed to have lost sight of s of the society, and the result is that the receipts ba penses, so the indebtedness of the society increased insg reduced. The report made in 1879 of the richness of and fertility of the soil was very fully stated and, in s s, slightly exaggerated. The wheat crop of 1880 was) good as in 1879, but full as many bushels, there being n own; corn, perhaps two-thirds of a crop; cats, crop v otatoes, scarce; fruit of all kinds very plenty, except peac mers of this county are becoming quite prosperous, and hope to be able to make a more favorable report for 188 WM. H. C. CHINN. Secretar

GIBSON COUNTY.

society held its annual meeting on the 5th day of Novem hear the reports of the officers for the year then end o to elect officers for the ensuing year, president delivered an able address, which was duly received to be placed on the records of the society, treasurer's report shows: Total receipts, \$3,563.65; total ares, \$2,957.25; balance on hand, \$606.40. Of the amo

expended \$843.50 was for additional grounds and permanent im provements. The amount paid in premiums was \$1,488.35.

This society is now in a good healthy condition again. During the great financial troubles which affected this country severa years ago, the society became involved to the amount of \$1,800 But this heavy load has been lifted off, and now the society is clear of debt and owns over twenty-five acres of ground adjoining the town, with the necessary buildings upon it for the accommodation of exhibitors and guests. Among the permanent improvement made by the society this year may be mentioned a line of shafting for the purpose of furnishing power for the display of all farm machinery which could be attached thereto. The display of self binders was especially satisfactory.

The society also erected a good building suitable for the show of sheep and hogs—something that was greatly needed, and which gave entire satisfaction to those persons making exhibits in those classes.

This society has ample accommodations in the way of good stall for horses and cattle, which is furnished free to exhibitors.

It has heretofore been the custom of this society to charge as entry fee on all articles entered for a premium. This year no entry fee was charged, except in the speed ring.

The society has always managed to conduct its fairs so as to fur nish accommodations to all persons usually attending fairs with stock, and have offered liberal premiums in the speed ring. Ye our grounds are so situated that it is not possible to furnish more than a one-third mile track without incurring great expense. And though often discussed before them, the directors have not as ye thought it advisable to expend a large sum of money for this pur pose alone, and the consequence is that no very extra time has eve been made on our track. And the speed ring, although a feature of our fair, is not the main feature.

But to compensate the public for the loss of this feature of fairs we have always afforded them an orderly, quiet, peaceable place o resort where they can meet friends and enjoy each others society and when detained at home they can send their wives and little ones, assured that they will be unmolested and safe from annoyance

One of the rules of this society, which is strictly adhered to reads as follows:

"Gambling and the sale or giving away of intoxicating liquors, i strictly prohibited within the Board's jurisdiction; also, no show of any kind will be allowed."

18-AGR. REPORT.

Thus preventing the presence of the noisy of society usually congregating when such evils. It is the aim of this society to keep step with the country, and to foster and encourage even the advancement of the agricultural pursuits. The exhibition of fine arts and of ladies' work ne county, and was one of the features of attractrowds of visitors.

The Fair was a complete triumph in every arther the interests of the whole community.

Already much good has been done in that roperly appreciate the improvements made, i iew the past quarter of a century which has e anization of this society.

The most marked results of this progress is o ultural pursuits. The principal crops raised heat and corn. The manner in which the w hows much improvement over former year reatly improved.

Large crops of corn are also raised in this cone lands adjacent to our rivers. The soil being at crop, and the yield is very heavy when verflow.

Our county contains thousands of acres of this hich, being subject to overflows, is rendered already then the proper attention is given to the inhannels of our rivers by straightening and deepen out some of the best farm lands in the Straterially to the wealth and resources of this countries throughout this country is very producted at reasonable prices. We have an unlimit f excellent quality, in the eastern portion of nee the completion of a railroad to that located, and large quantities shipped to other place.

Of the limestone mentioned in a former report would only say that it is yet undeveloped, exce I the principal streets in the town of Princeton aying that it is of easy access and in quantities she principal roads in this county, so as to rend II seasons of the year.

But a change in our present road laws will t auch can be done in that direction.

Of the farm stock in this county I can only satent is not what it should be. Although ou

much improved by several herds of Durham, Jersey and Devonshire cattle, being brought into the county.

The horses in this county may be classed as good general purpose horses, although the show at our fairs of light harness and saddle horses, has improved very much in a few years.

There are several good flocks of sheep in the county; Cotswolds, Leicesters and Southdowns; yet the prevalent habit of everyone owning worthless dogs, has prevented many from turning their attention to this profitable industry.

Of swine the Poland-China and Berkshire breeds predominate, and almost all farmers in this county can show something good in the way of stock from one or the other of these breeds, or their crosses, according to the fancy of the owner.

The display of poultry at our last fair was very fine, and showed that much attention was given in that direction by our farmers.

Some attention is given to horticulture in this county, and the cropfof fruits was unusually fine the past season. Yet there is not a sufficient quantity of winter apples raised here to supply the demand. Whether it is for want of the proper attention, or some other reason, is yet an undecided question.

The former reports from this county have left but little to say of the resources of this county, and, in conclusion, I would say that our county has plenty of room yet for improvement, which it is our aim to grasp in the near future.

JOSEPH C. HARTIN, Secretary.

GRANT COUNTY.

The twenty-seventh annual Fair of the Grant County Agricultural and Stock Association was held on their grounds near Marion, the 14th, 15th, 16th and 17th days of September, 1880.

Owing to the excitement usually attending a Presidential campaign our people anticipated a small attendance; but the weather was fine, and they seemed to consider the Fair a kind of rest from political squabble. Our association excludes gambling and kindred practices within the inclosure. Nothing is tolerated which need offend the moral and good citizen.

Our grounds, which belong to the association in fee simple, comprise thirty-five acres, and is situated one-half mile east of Marion, on the Marion and Eastern Gravel Road. Good spring water can be had for man and beast on three sides of our grounds and within the inclosure. Numerous shade trees of almost all kinds and sizes are interspersed over the entire inclosure.

speed ring, which is half mile in hirty to forty feet above the ravines ave ample room and provisions for and and fifty stalls for horses and ranged with reference to water, a hall, vegetable hall and an amphith 1000 to 2,500 people.

show of horses and cattle was good, las the best we have ever witnesse air only in numbers. Our poultry r, to any of the kind we have witner and poultry raisers in our coun nent usually managed by the ladies of our county, who have always our fairs both attractive and usefue assistance of our ladies in holding old affairs.

and several self-binding machines. The show in agricultural impleme have been able to pay all premium curred for improvements on the gracicipate a prosperous future for our

GREENE COUNT'

leventh annual Fair was held Octob being fair, we should have had a placempaign drew away many of our ome very substantial improvements ring year. Our expenses were monorovements were much needed. We premiums awarded, which satisfied

CONDITION OF AGRICUL'

ners. Wheat is fast becoming our ds, formerly exclusively used for the ding the uplands in raising wheat, it, in 1880, leaves the product in bu 1879, late sown land being light, and Corn is little over half a crop, eap I clay nature, and very little corn we

for market outside of home demand, prices here being higher the the market will, justify to pay for shipment. Oats were almost complete fulure. Hay good and of excellent quality, equal to be year. Potatoes not sufficient for home use, and all garden product are light. Cabbage a complete failure, owing to the cabbage worled increased value of all productions make up for the failure yield of some of the crops, and farmers are in better condition that a year ago.

Draining by laying tile is making steady progress; some of or worst ground now under drainage produced the finest corn crethis year, the river bottoms not excepted. We have one kiln this county making a good quality of tile, and the day is close hand that much of our worthless land will be reclaimed and at largely to the wealth of our production.

Owing to the high price of corn, many hogs went into mark poorly fatted, and the stock on hand is less than usual. Few catt are fed on corn, but more attention is paid to the raising of the class of stock, being less subject to disease than hogs, and of is being more profitable.

Orchard products were fair, of good quality and sold at suital prices.

P. Schultze, Secretary.

HAMILTON COUNTY.

The Hamilton County Agricu'tural Society had a very poor e hibition this year, on account of a cyclone, which passed over the leased ground, entirely demolishing and destroying all the hal stalls and pens on the ground, also destroying the amphitheater as all the fences around the enclosure; and the society was compelle on account of the near approach of their Fair, to use the old ground formerly occupied by them, and on which they will in the future thold their annual exhibition, and a better and more favorable aport can be expected from this society. I will further add that large amount of draining is now in progress in this county, additargely to its productiveness and the health of its population.

L. O. CLIFFORD, Secretary.

HARRISON COUNTY.

The twenty-first Fair of the Harrison County Agricultural So ety was held on their grounds at Corydon, commencing Septemi 11 and continuing five days. Notwithstanding the political exc

ment which prevailed, there was an average manifested in all of the departments. The limited, but was of a better grade than at 1 self-evident fact that holding our fair has enh wealth of our county by stimulating our fare of cultivating the soil for profit and invest better grade of stock. The show of jacks and ited, showing there was a loss of interest ta interested in that department. The show hall was sufficient proof that this branch o been neglected, and the number of young or the county, just beginning to bear, will, in a rison county one of the leading fruit-growing Indiana. The attendance was larger this year Many visitors from other counties of the ! tucky, were in attendance, our Kentucky of the premiums for fine sheep. The distr was very satisfactory both to exhibitor and something over nineteen hundred dollars i provements, there still remains in the treasu seventeen dollars, showing a financial succe and sheep was one of the main features of the cellent quality. Our crops, taken as a whole factory to the producer. As our Fair incr increases in the number in attendance, and v matter of time when the Harrison County shall be second to none in the State.

Our friend, Mr. Kingsberry, of the Indias delivered a very interesting address, taking culture," which added much to the occasion.

CHARLE

HOWARD COUNTY.

The fourth annual Fair of the Agricultural present management, was held at Kokomo, to 18 inclusive. The Fair was a success go the departments being inferior to what the pated. The show in live stock was particular ber of entries that should have been made; e of cattle. Just think of paying more money and sheep than on cattle! But this was no fa

as not half the premiums offered on cattle were competed for, is with some local pride, however, that the directors look into the future. Already there are some five or six herds of cattle being for in this country for the next fair. The fruit produced in this count and exhibited at the Fair was of superior quality. The manage have been holding the Fair a full week heretofore, but have conto realize that this is not best, hence will hereafter shorten the time from six to four days.

A. N. GRANT, Secretary.

HUNTINGTON COUNTY.

The twelfth annual Fair of the Huntington County Agricultur Society was held on their beautiful grounds adjoining the city Huntington, on September 15, 16, 17 and 18, 1880. A grand su cess. The weather was very fine.

The first day we devoted wholly to making entries, and assigniz stock and articles to their places. On the second day the exhibition of stock began, which was in all things the most complete of ar exhibition ever witnessed in this county, and we doubt very mucifiever witnessed in any of our sister counties.

The horse show was "just simply immense." Norman, Clyde dale, Hambletonian, coach, running, trotting, pacing, saddle, far and every other kind of horse known to the country was then and they were all good ones.

The show of short-horns was extra good. Huntington county noted for her short-horns, but a foreign herd "took the cake" ove some of ours this time, but can't do it again. There were plen of Jerseys there, too, and they made a very good "little" show.

The show of hogs was short in comparison with other years he, on account of the hog cholera still prevailing to some extent.

The sheep show was better than ever before. Several herd sheep imported from Canada were on exhibition.

The poultry show was good, and our new poultry house was ru ning over with large and choice fowls of every description.

The farming implement show was only in keeping with the baance of the Fair ("immense"), and indicated that the farmers Huntington county don't do all their work in the old-fashioned was

The two large halls were jam full of nice things, and the ladi did themselves great credit in their side of the exhibition, and the consequence was that the halls were full of spectators from ear morning until late in the evening. There was not a large quantity of frui was there did not lack in quality.

Grain and seeds were well represented, We started out this year with \$3.25 in the balance of our old debt of over \$1.40 have about \$600 left after paying every hard for the last three years because whave made any mistakes it is only human

CONDITION OF AGRICU

The agricultural interests in this coushape.

Farmers are in easy circumstances gen crops for years, and they are now improway and paying as they go.

The corn and wheat crop was an averagood prices.

More hogs were fed in this county this years, on account of the disappearance cholera.

A great many cattle are fed and shipp year.

We have completed about one hundred county, one-half of which are free and the amount of hauling that has been done they are highly appreciated. We also he road under contract to run from Chicago

Lime City, as we are called, is on a so stone of the very best quality, and the lime city, because the several lime companies and shipped 550,000 bushels this year of try, which is worth on board the cars hobserved is quite a source of revenue to require seventy-two trains of twenty-five. The value of lands, lots and improven

county as assessed for taxation is Value of personal property as returned l

JACKSON COUNTY.

The fifth annual Fair of the Jackson County Agricultural Society was held on the Society's grounds at Brownstown, August 23, 24, 25, 26 and 27, 1880. Saturday, August 28, being set apart for general sale day of stock.

Notwithstanding the weather was exceedingly warm, the attendance was large, especially on the 25th. This day, as on the previous year, was devoted to the old settlers of the county. By invitation all persons who had resided in the county thirty years and attained the age of sixty years, were admitted free. The result was a large attendance and a pleasant time, and the permanent organization of old settlers continued.

The society gave the floral and horticultural departments in charge of a committee of ladies to arrange and superintend, which proved a success and rendered general satisfaction, and demonstrates the fact that women are mens help even in agricultural societies.

The various departments for exhibition were well filled. The show of long wool sheep far surpassed any previous fair, as did also draft and general purpose horses. The show of cattle and hogs was not as large as on the previous years, but a better quality was on exhibition, which proves that our farmers are keeping up with the times.

The floral and horticultural hall was well filled with the product of Jackson counties rich soil and the handywork of its women.

The society's grounds are situated one mile from the Ohio and Mississippi railroad, on a beautiful site, with a never failing stream of water running closely, plenty of shade and a good half-mile track, and have plenty of stalls for all kinds of stock and ample provision is made every year for feed and boarding on the ground at fare rates.

The receipts the present year paid all premiums and expenses, and we had a surplus of over two hundred dollars. Taken altogether, we had a most excellent fair and we feel that our organization is doing much good and making advancements every year and confidently expect the next fair to be the best we have ever had.

JOEL H. MATLOCK, Secretary.

JASPER COUNTY.

On the 21st to the 24th days of September, 1880, inclusive, was held the ninth annual Fair of Jasper county. This is the second held under the auspices of the Jasper County Agricultural Society.

Horses for draft and general purposes; cattle for hogs, poultry and machinery, were largely shown display. There was a noticeable lack of grains, vegneedle-work. The races were poor and a severe to those who came for sport. The educational demarked improvement over the exhibition of last j

Although the weather was fine the attendance, day, was slim. Of course the amount received as small.

It was found necessary, in order to avoid debt, miums awarded, and this was done at the rate of 8

About \$500 was expended on the grounds du constructing and repairing buildings, sheds, pens, I of this improvement is considered permanent.

CONDITION OF AGRICULTURE.

The wheat crop of Jasper county for the year good when harvested and threshed as some had yield was not large and the grain was only fair in

Corn matured well, but was short of a large crop up to a fair average. It finds a ready market at bushel.

Oats were light and inferior in quality.

Buckwheat may be reckoned a fair crop.

Not much rye and no barley raised.

Flax made an average return.

Irish potatoes are reported scarce. At storing quoted from 45 to 75 cents per bushel.

Sweet potatoes, though not extensively plante crop, excellent in quality.

Garden products—cabbages and the like—wer light crop.

Fruit was abundant, particularly apples. At he picked winter fruit, choice, brought 35 to 40 cent livered. By far greater than ever before, was the cider and vinegar.

More attention has been paid in late years to of the breed of hogs, perhaps, than to any other animals. The Poland China, Berkshire and Jerse ites in the order named. The direction taken by to increase the beef capacity of their herds, hence been favorites almost to the exclusion of all others f crossing with native stock. A creamery has rece at Rensselaer, which may, after a time, modif

COUNTY AND DISTRICT REPORTS.

Quite an interest has developed within two or three years try breeding. Several varieties, each having special poin cellence, may now be found scattered among farmers and The direction taken by horse breeders generally has be crease the size and capacity for draft. Very good crosses a among the farmers, which shows their ancestry to have bee dales or Normans, and not far removed. A few, possib dozen, running horses are owned in this county, but the kept for breeding purposes.

Within two or three years tile factories have been estab Jasper county. These find a fair market for all the drain have yet been able to make. The use of this system of dr telling to the advantage of those who have adopted it, in la

ter and surer crops.

William K. Parkison, Esq., president of the Jasper Courcultural Society, has been indomitable in his efforts to direct an improved system of farming and stock-growing. To to his coadjutors of the board of directors is due much puthe disinterested zeal they have manifested, giving time a without money reward to make our county Fair interested beneficial to visitors.

HOBACE E. JAMES, Se

JAY COUNTY.

The Jay County Agricultural, Horticultural and Industration Stock Company held its ninth annual Fair on their group Portland, on October 5, 6, 7 and 8, 1880. The number of exceeded all other years. The sale of gate tickets was not as the preceding year, and we assign the cause to it being paign year. On the third day of the Fair, the Hon. James spoke at our place, and if experience is worth anything, advise secretaries of all county societies to postpone the rather than to try and beat Blaine drawing crowds. It can't I say, I've tried it. But we managed to pay the premiums in functional states of the Fair, and have in the treasury \$696.07 (days.)

CONDITION OF AGRICULTURE.

The condition of the farmers and their farms is improvedly. The farms are better tilled, and, consequently, their grare better filled. The improvement in cattle is getting to a feature with our farmers. Mr. R. T. Hammons, Mr. Wu

BOARD OF AGRICULTURI

s. Crowell & Detamore, are breeding ing to displace the old scrub and in their place fine blooded and paying c corn, oats, rye and other cereals we: ight yield; apples moderate crop.

GEO. W. 1

JEFFERSON COUNTY.

e at the accompanying statement will of our society as well, if not better, e endeavored to out-general a circus idition of our farmers have kept parerage. Good crops of all the cereals in crop for 1881. We feel as regards went to sea in a bowl—Had our Fair I been longer. GAM. S.

JOHNSON COUNTY.

er to your circular in regard to agricular the wheat crop of 1880 above as a less than an average.

ple raise horses, cattle, hogs and sheet. The farms in this county are better period in our history. Farms that the considered third rate are now more soft that time. The principal agent exement in the soil is underdrainage, in was a success, but we can not tent on the exhibition of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year; of the control of the precedit ries was about the same as last year.

RICHARD M. J

KNOX COUNTY.

rual Fair of the Knox County Agricul v was held October 18 to 23, 1880. Th several departments were well represented by entries of

now of live stock was very fine, and the display of agriculplements was probably the finest ever held in southern Inhile the other departments were each ably represented by of merit as usual.

eather was severe; very unfavorable the whole week. Prethe attendance of many visitors, and seriously interferring receipts.

tal number of paying visitors was 12,057.

nances would have been at least even, except we expended rovements \$311.24, besides our regular dividend to stock-of two and one-half per cent, in the way of admission tick-paid all premiums and other bills in full.

E. R. Steen, Secretary.

LAGRANGE COUNTY.

agrange County Agricultural Society held its twenty-eighth fair at Lagrange, Indiana, September 22, 28 and 24, 1880, of entries was not as large as usual, nor was the attengood for several reasons. Just at that time unfavorable ances for a good and successful fair, the campaign being on in its greatest excitement in this locality, drew largely attendance at the fair. The premiums paid amounted to 700, and expenses of fair and the improvements made by ty on its grounds left nothing to pay on the debt of the some officers of the society have re-funded the debt to a 7 loan and leaves the indebtedness of said society at about the grounds. With two or three years of good support at ing fairs I think the society will be able to pay off its entire ness.

Respectfully submitted, J. M. Preston, Secretary.

LAKE COUNTY.

ake County Agricultural Society held its twenty-second zhibition on their Fair grounds October 5, 6, 7 and 8, 1880. ther was all that could be desired, but the attendance was quite as large as that of last year, owing to ally tickets, which was abolished, and a two red in its stead. This caused a great deal of d farmers and also the greater part of our to reless the Fair turned out in the end bette ing taken in sufficient to pay all premiumring us a balance on hand.

here was a very good show of horses, muchocattle show was not quite so good, and then vement in sheep this year. That of the hog ent. The showing of grain and farm product he floral hall, or ladies' department, was a r, owing to the dissatisfaction of the ladies a lding a new hall, as partially promised at c the society felt that they were unable to star, consequently the ladies would take no interpear the ladies department was a complete , is the intention of the society, at their n l, to talk over the matter of building a new ghborhood of \$1,000, providing the citizens la now on hand by subscription.

GEORGE I. M

LAWRENCE COUNTY.

he twelfth annual Fair of the Lawrence (iety was held on the grounds of the society, ber 14, 15, 16, 17 and 18, 1880.

his was, in some respects, the most success!
rs. The weather was good, the Fair was g
e and the receipts sufficient to pay all prenull.

he past year has been a prosperous one for aty. The wheat crop was better than an y up to the average, and other crops good. his county is steadily gaining in populat it an average of the State for agricultural p we the average for stock raising purposes.

WILLIAM

MADISON COUNTY.

The Madison County Joint Agricultural Society held its thirteenth annual Fair on their beautiful grounds near the city of Anderson, commencing September 7, 1880, and continuing four days. The weather on the first and second days was very unfavorable and disagreeable, being very cool, which doubtless detracted from the attendance those days, but during the latter days the weather was more pleasant and attendance good. The number of entries was the largest ever made, except 1879. The exhibition in all departments good, especially so in the show of all kinds of stock Among the exhibitors in the horse department were J. W. Lewark, Robert Bogue, W. B. Legg, John Starr, Henry Brounenberg, O. E. Rich, William Meikle, Wash. Black, Ira Williams and others. In the cattle department, Thomas Wilhoit, D. C. East, A. Garretson & Bro., and others. In the swine department, A. W. Martin, Wesley White, D. Canaday, and others. Sheep department, Thomas Wilhoit, H. C. Meredith, R. I. Voris & Son, I. N. Hodson, B. Armstrong, John Franklin, and others. The exhibition of poultry was the best we ever had, and judged by I. N. Barker, of Thorntown, Indiana. Much praise is due the farmers and breeders of improved stock for the attention they are giving to the improvement of their stock. The display in the floral and art halls was very good. The ladies deserve much praise for the interest they take in making our fairs a success. The society paid all premiums in full, are entirely out of debt, and have money in the treasury. The society made valuable improvements last year, built a new fence, seven feet high, entirely around the grounds, also a new fence around the time track, and enclosed six acres more ground, making in all thirty acres enclosed by new fence, which now make our grounds the most complete County Fair grounds in the State.

CROPS.

The wheat crop above the average last year. The acreage of wheat now sown is equal to or more than last year. Corn light. Oats very good. Rye and barley not grown much in this county. The live stock interest is on the increase, notwithstanding the loss of swine from cholera. Wool growing receives considerable attention, and is a source of profit to those who give the business proper attention.

In addition to stable and barn-yard manure, the farmer regards the clover the chief recuperator of his weak and exhausted land.

Drainage has received considerable attention; the farmers of this

county have used a great deal of drain tile within with very satisfactory results.

Most of our fencing is done with split rails, the with posts and boards, posts and barbed wire, a able hedge being planted last summer and fall.

We have very good roads, the gravel roads made from "pit" or river gravel.

The dairy interest is very poorly represent We have none other than for milk. No butter business. • C. K. McCu

MARION COUNTY.

The Marion County Agricultural and Hortic the year 1880, would report as follows:

The society held meetings during the year of special committees on the agricultural and he of the county were made subjects for special each meeting subjects suited to the season he and papers read. The meetings at all times he attended, but full of interest, with an increased object of these monthly meetings became more

In the month of June, —— day, the society h fruits, vegetables and flowers in the rooms of Agriculture, which was a creditable display, r Small premiums were awarded to choice variet

At each of the subsequent meetings from J had an exhibition of products, fruits, vegetables products, which was a fine display, in view awards were made until the October meeting, miums were awarded to exhibitors for the best vegetables, flowers and farm products. The time a very fine exhibition. Many of the product excelled in quality at State Fairs.

The society has arranged to commence with of 1881, and hold in that month an exhibition awards will be made on products exhibited, ar miums at each monthly meeting during the thereafter, closing with the October meeting. I the society in these monthly meetings, to be held tions of the county, to enlist the hearty co-operagriculturists, believing that in this way we can

in developing a general interest in agricultural pursuits than we can by holding a single exhibition in the year, which is more especially true in our county, on account of the State Fair being held in this county.

A further reason for holding monthly exhibitions, as before indicated, is that the city affords a good market for small fruits, vegetables, etc., and our farmers are becoming more and more interested each year in these productions. The holding of monthly meetings and exhibits of products will, as we believe, tend to increase the interest in the line of products in which our farmers and fruit growers are more largely interested.

CONDITION OF AGRICULTURE.

The agricultural products of this county are varied, the county being centrally located, having situated within it the capital of the State, numbering over seventy-five thousand inhabitants, and a great railroad center, convenient for a million and a quarter of people to visit, transact business and return the same day (if desired), which fills our city with a large visiting population, requiring extensive hotel accommodations, and consequently a large daily supply of market products. Hence we have, surrounding the city, a considerable number of market gardeners, situated upon small tracts of land, usually prosperous, many of whom become wealthy in a few years by giving close attention to their business. They are demonstrating also that success does not so much depend upon the number of acres as the methods of cultivation; yet market gardening has not come up to that full measure of success desired. Many of them are situated upon lands that are wet and cold, which might be made certainly productive by under-drainage. Very many gardeners and farmers, also, seem to think that getting rid of surface water by surface drains is the sum of all that should be done in draining, while underneath the surface is stagnant water, which renders the soil cold and unproductive. The warm-drained soil requires much less labor in cultivation, gives a larger pasturage, or feeding ground, for the roots of plants, and appropriates readily the applied manures and fertilizers. We note also the fact that our gardeners (many of them) seem to have little knowledge of the loss of value to manures sustained by heating and the escape of ammonia and acids. It is a common practice among gardeners to haul from the city, or elsewhere, large quantities of stable manures, and throw into a heap or piles sufficiently large to heat, where they smoke like a boiling cauldron through the winter months, losing a large per cent. of their value. But the gardener adds in quantity

19—AGR. REPORT.

where he lacks in value, but it is expensive. vails among our larger farmers to the exter to rot about the barn, or against it, the latte But little has been done in this county in nures with soil in heaps to preserve its v gardeners can also procure from our ferticated near the city, fertilizers adapted to the far only a few have tried them; those that I result. Our soil is adapted to the growth wonderful effect in the recuperation of the

manures and fertilizers to be had from the city renders it an easy matter, with sufficient drainage, to bring our soils to the hi productive state. We very much need to educate ourselves the point of making the most of our surrounding advantage this county.

SMALL FRUITS.

There is a constantly increasing demand in our markets for fruits fresh for the table, and but few of our farmers and gard have given attention to this important interest. The damage insects has discouraged many from extending or engaging k in the growing of small fruits.

OTHER FRUIT.

Apples, pears, etc., have shared a similar fate, with only exceptions. Orchards have been neglected, not to a greater c perhaps, than in other portions of the State, but our convenie market, and the profits to be realized from good market should serve to direct public attention to this important bra agricultural products.

DAIRY INTEREST.

There are a number of large dairies in this county, many of located near the city, and the number is increasing each year plying the city with milk. Many of our dairymen are bringing their stock and the management of their dairies to a perfect very commendable. There are some, however, that are uncertained inhuman. In addition to those furnishing daily suppossible, there are butter dairies producing the best brands of I is no longer necessary to ship large quantities of butter the creameries in Ohio and Michigan to supply the demand excellent quality in the city. We have every facility for me the demand, and it will be done in the future.

GENERAL FARM INTERESTS.

The general intelligence, thrift and enterprise of our farmers are equal to any in the State. We believe them to be as ready to use all available means to advance the interests of agriculture as any people, and that they have made as much or more advancement than many others. Yet much remains to be done to bring us up to that full measure of success so much desired.

The production of corn, wheat, oats, grasses and live stock of all kinds are above an average, but we need to do much better with our market facilities.

Every foot of available land in the county should be brought into the highest state of cultivation to supply the daily wants of so large a population, and add to the general prosperity of our people.

OUR SOCIETY'S WORK.

The Marion County Agricultural and Horticultural Society, having in view the advancement of the varied interests named, (and others not mentioned,) have arranged to hold monthly meetings at different points in the county, at which the various subjects relating to progressive agriculture may be considered in well matured papers and discussions. We have also further determined to award premiums for products exhibited at the meetings held during the summer months, believing, that in this way, we shall interest more fully the general farming interests. We have, in part, demonstrated the utility of the plan the past season, with very gratifying success.

J. J. W. Billingsly, Secretary.

MONTGOMERY COUNTY.

The Montgomery County Union Agricultural Society held its first annual exhibition on the society's grounds September 6 to 11 inclusive. The weather was all that could be desired and the attendance large, making the Fair a complete success in every respect.

The Fair grounds, owned in fee simple by the Society, containing 623 acres, heavily shaded by original forest trees, are universally conceded the finest grounds in the State, being abundantly supplied with water from ice-cold springs which is forced to all parts of the grounds through pipes, thereby making an attractive as well as a valuable feature.

The society has expended about \$15,000 in improvements and it is certainly surpassed by none in the State. Our track is one-half

mile in length, sixty feet wide and built at a situated that races can be witnessed from a view being obstructed. Our buildings are a permanency, being built on brick foundation follows: Floral hall, covering 6,000 square for capacity of 1,500 seats. Three buildings for 21 by 140 feet, all under cover; three hundre cattle, a greater part of which are box stalls; house and a large power hall for the display

The grounds are situated within one-for house, all within the corporate limits of the either side.

As before stated, we held our first Fair las press and public generally were profuse in th agement have been congratulated repeated the enterprise. Our great success is, undoulure, to the fact that no "games of chance" vas there allowed the sale of any intoxicating ural consequence, nothing but the best of or

Montgomery county ranks among the firused to be her wet lands (of which she at on ble) has now become the most productive, of tem of both open and under drainage, which extensively within the last few years.

The county has seventy-one miles of toll gr miles of free gravel road, built according to law of 1877, with fifty miles more of free grav on file in the Auditor's office.

Hog cholera has been prevalent this year, tent as to discourage the industry. F. I

MORGAN COUNTY.

The Morgan County Agricultural Association in the annual Fair, at Martinsville, from the October. The list of entries was largely in year, and the exhibition in every department partment, was unusually good, and the we politics did it. Two grand rallies upon the and the preparation of the people to attend the previous, cut short the gate receipts, and we

AND DISTRICT REP

all, except the speed ring

average in this county (ood crops of any kind.

H. A

NEWTON COUNTY.

y Agricultural Associati Fair grounds at Morocco ing fine and attendance orses was first class, and on ntries, the show of goo

and mules were few, the ompete at any Fair in the ras small, but good in quand hogs was good. Hogs

was rather poor, as the the county.

ments the show was ve The merchants helpin is, boots and shoes. ar were very good. We ttle in debt. The per c st to pay in full, although

NDITION OF AGRICULTURE

are trying it this year.

ple crop of this county.

good in quality.

nty give more attention;

t. Some few farmers ar
han in former years, wh
country. Some few farm

BOARD OF AGRICULTURE

NOBLE COUNTY.

the twenty-fifth annual Fair of the Noble C sty was held on the grounds of the societ, ber 6, 7, 8 and 9, 1880. Considering the gr t that prevailed at the time, our show of st is people was much better than we expect gates and other sources more than paid the ed by the society on the various classe ded, as well as all other claims, are paid, I in the treasury. Encouraged by the rest, the directors intend to build a large and which is much needed, and will add to the society.

p and hogs was equal to that of former yea of textile fabrics, ladies' fancy articles, fine as, in the old floral hall, was splendid. The products was large and fine. A full line so on exhibition attracted much attention represented except agricultural implement entirely neglected.

ne state of agriculture in this section is in farmers, as a rule, are prosperous. Whe uct in this part of the State, and farmers has with all the best improved machinery to at important crop. We have had successive of wheat. The corn crop of 1880 was rathery weather in July and August.

te prospect for the growing wheat crop is ig to dry weather at time of seeding and al l cold weather set in early in November. I een favorable to wheat, the ground being or, and, being frozen steady without any the e out all right in the spring.

ach attention has been paid by our enteroving their stock of horses and cattle, and a lots of the best breeds of horses and herds on he found in the State. The prospects of ers and their agricultural society is cheering be held October 12, 13, 14 and 15, 1881.

PARKE COUNTY.

The farmers and business men of Parke county seeing the need of a county fair and exhibition, called a meeting in early spring of this year and organized a Stock Agricultural Society with a capital stock of \$4,000, which was readily subscribed to the amount of \$3,750-The society appointed a board of directors, who at once proceeded They leased the beautiful grove of Alexander Puett, onefourth mile west of Rockville, containing about 50 acres of ground, and had it enclosed with a nice substantial fence seven feet high; also erected about 160 stalls, hog and sheep pens, and one large hall. An abundant supply of water was furnished by two large wells; shade trees are abundant in a natural state upon the grounds. A beautiful half-mile track was laid out within the enclosure for the double purpose of showing speed horses, carriage horses and roadsters. The track is egg shape, fifty feet wide, and has only about eleven inches of variation, in the entire distance, of being level. The beauty and finish of the work on the track has elicited the warmest commendation from all horsemen who have visited it. The society has expended about \$2,500 on the grounds the past year and will expend the coming season about \$1,500, which will make our grounds one among the finest in the State. Our first exhibition was held on the 11th, 12th and 13th of August—"the first of the season." A liberal premium list was offered which was spiritedly contested for by the exhibitors. The weather was fine and the display in all departments was excellent.

Among the great attractions were the fine horses from Swain & Palmer's stock stables, of Bellmore, and Crooke & Adams' stables. of New Discovery; also the fine herd of Holstein cattle of T. H, Anderson, and the fine herd of Jerseys belonging to S. L. McCune of this vicinity.

The hog, sheep and poultry departments were well represented and attracted large crowds. In the speed ring there were about forty entries, and some of the best horses in the State were present, which made it lively for the sporting community.

In the needle work department and domestic manufactures the display was grand, and the ladies of Parke county deserve great credit.

Notwithstanding the large expenditure of money in the way of improvements, our society paid dollar for dollar, and had \$400 of a balance in the treasury.

Our people in the main are order-loving, law-abiding people, and our Board, to make double sure, strenuously guarded all the ap-

proaches to rowdyism and disturbance, by easible, all intoxicating liquors, lotteries, aw True, our society might gain a few dollars by such tricksters, permitting them to impose u filch from the pockets of those who are no ways of this wicked world. But they chose class than to profit at their expense.

Rockville, the county seat of Parke, is a beout and nicely set with shado trees. We havery enterprising business men; but what we manufactories. We have six gravel roads, branch of the Vandalia railroad. A fine coupleted, costing about \$100,000, and a fine hote accommodate the public in a few months.

DAVID

PERRY COUNTY.

The Perry County Agricultural and Mecha its ninth annual Fair on its grounds, near R the first Monday in October, and continuing f in the floral hall were not up to former sease celled other seasons. The stock department v years in number and quality; but all departn sented. On account of the excessive rain in short; wheat not more than half crop. The promises well—acreage large. grounds drowned out; not more corn than fo Outs almost an entire failure. Barley very go poor; none scarcely for home use. Peaches none; on hills good. The potato crop is s: than for many years. Farmers that planted planting lost all by the wet weather, and the did not get more than half stand, then the ea in the ground, which cuts the crop very sho ing more hogs than of former years, and turn raising small grain. There is a decided imp of planting small grain in this county, in the ground and in machinery, such as drills and and steam threshers. Sheep are coming it farmers. The rotation of crops in this count clover sown in wheat or oats, two or three

wheat, two years in corn, one year in potatoes; but a majority of farmers have no regular rotation.

The old-fashioned way of hauling out manure from the barn yard and scattering in field in the fall and spring before breaking, is still in vogue, there being no phosphates or plasters used.

The majority of fences are still of the old-fashioned worm rail on the hills, and in the bottoms posts and slats, and some hedge.

There are no dairies in this county; farmers sell their surplus butter at the nearest town.

The roads are still worked in the old-fashioned way—plowed and scraped in the spring or fall. It is almost impossible for farmers to market their produce in winter. We have no railroads and have to depend on the river for transportation, and the ice generally hinders shipping.

Our Fair is now recognized as one of the best county fairs in the State, always paying premiums in full, cash.

J. L. WHITEHEAD, Secretary.

POSEY COUNTY.

The twenty-second annual Fair of the Posey County Agricultural Society was held September 14, 15, 16 and 17, 1880, and was as usual a success in every particular. The society owns twenty-four acres of ground one-half mile from the town of New Harmony, and have every convenience for exhibitors and visitors. During the last year many improvements have been added to the grounds by new buildings and line shafting for machinery.

The society is entirely out of debt, own the grounds in fee simple, have \$1,000 at interest and a surplus in the hands of the treasurer of \$200, and also have \$125 invested in stock in a hotel in town.

The principal crop raised in the county is wheat, and the crop, although not as heavy as the crop of 1879, was over an average for the State. The crop has mostly been sold, but there are many thousands of bushels yet in the hands of the farmers. The average price paid in the county was ninety-five cents per bushel. When last seen, the present wheat was looking well, but being generally late sown, did not show as promising as last year at this time. It is now, January 12, under heavy snow, and has been ever since the middle of November, with the exception of a short time when the snow melted off in December. There is a greater area sown than last year, and it came up well. The corn crop is short, owing to a protracted drought in June, and a large proportion of it is yet in

the fields, the cold and snow making it impos There is no great demand for it, and the price by thirty-five to forty cents per bushel. Hogs we foot during the summer and fall, and driven to ket. They were generally sold by lots or so There has been quite a number slaughtered i price paid being four and one-fourth cents gros per pound. This county is rapidly improving. cleared off and made into lumber for fencing, b old worn fences are fast giving way to neat plank orange hedges. Large tracts of land are being ele into cultivation, particularly the rich bottoms & river, that were a few years since considered too cultivation, are now being drained under the drainage of wet and overflowed lands by ditchin use of tile for under draining, there being bus manufactories in the county.

There is now nearly completed a railroad i Peoria, in Illinois, passing through the richest to the county and crossing the Wabash a short dist ville, Illinois. It runs within six miles of our fair is also another road projected from New Harmon the Owensville branch of the Evansville and Terr but if this should not be built, we are about as wel in the State for transportation, having the Ohio r and the Wabash on the west and north, the St. Eastern Railroad running from the south-east co to the north-west part and crossing the Wabash ville and Peoria Railroad passing through the no and also a regular packet running daily from Grayville, Illinois, making close connection with Cairo railroad. With all these facilities for shipand with the best farming lands of any county in be strange indeed if our farmers were not prospe

In addition to wheat and corn, which are the a grains and grapes do well, and clover is become crop, not only for the hay and its wonderful fertil for the seed which is becoming quite a source of mers. Fruits of all kinds do well when prope farmers generally pay but little attention to it. . are healthy. Hogs are all in which there has be ment for several years. Sheep do well in any p but owing to the ravages of the dogs very few are

COUNTY AND DISTRICT REPORTS.

THE AGRICULTURAL SOCIETY.

lar annual meeting of the Posey County Agr s held at New Harmony on Wednesday, Dece as called to order by Robert Clark, President, ates of the regular meeting of the society in Julopted. The minutes of the meetings of the ere also read and concurred in. stary submitted the following report of the rece es through that office for the six months ending

as follows:
Receipts.
ion tickets to twenty-second Fair
eceipts
Orders Drawn on Treasurer.
nd repairs
ders drawn over receipts
FRANK D. BOLTON, Se
urer's report was read as follows:
0, amount on hand
eceipts
e on hand this date
A. H. FRETAGEOT, Tre
zees submitted the following for the year ending
o T. J. Truscott \$1,000 at 8 per cent. interest fro 80, rented Fair grounds for pasture to January

or \$75; collected note of J. L. Harris, \$216, in otel, \$250.

All of which reports were referred to the aud

The president appointed D. M. Schnee, L. Per. Ford, auditing committee. On motion the path that the the 15th day of December, 1880.

WEDNESDAY, D

Pursuant to adjournment, the society met, a resent the meeting was called to order by resident. The roll of officers called and all resident and general superintendent. The mehe election of officers, when the following med serve for the ensuing year: John B. Ellic tichards, vice president; F. D. Bolton, secretair reasurer; Edward Highman, marshal; Henry ntendent; Henry Hayden, Isaac Cowgill aurustees.

On motion of D. M. Schnee, the vote by whice rustees was referred to the auditing commit seeting was reconsidered.

When on motion of H. P. Owen the report warred in.

T. J. Truscott submitted an amendment to the ag the time of regular meetings from the first and December, to the first Saturday in Ap Which lies over under the rule until the June: Frank D. Bolton offered an amendment to ociety, by adding to section 3, of article 12, the nake no investment, appropriation or loan ociety, unless instructed to do so by a majorit

ers present at a meeting of the society.

On motion the meeting adjourned.

FRANK D.

PORTER COUNTY.

Fair of the Porter County Agricultural Societ grounds adjoining the city of Valparaiso and October 1, 1880. The weather was favoral and the attendance about as usual; the receiveness and premiums in full.

ne departments of stock was not only equal years, but was superior as to character. The ruit was equal to any former year, and mu

was good and competition lively. chinery, farm implements, wagons and bugg-

as much better than former years.

nade its appearance in many parts of the cousing a greater portion of their fattening he

FARM PRODUCTS.

and potatoes, an average crop, with a fine fr abundant yield of all kinds of grass. ctories all did a good business this season, all capacity. Our agricultural interests are a consequence our farmers, merchants, r are all in good spirits, and all rejoicing at REASON BELL, Secretary

PULASKI COUNTY.

nal Fair of the Pulaski Agricultural and I was held at Winamac, September 21 to be list of entries was not as large as last yeasted by the farming community was musefore. There was a larger number of hor year than at any previous fair, and the stapprovement.

onsists of about fifty members and is free frage live business men, and we hope to be able the best fair our county ever had.

i 1880 was excellent, though not so good as t

of 1879. The number of acres sown this year is usual, and the prospect for a good crop next year indeed. The farming interests of our county as increase. Our manufacturing facilities are got yet, been utilized to any great extent.

The improvement in our county seat this y buildings, has been extensive, and we are prou have as fine a business block as can be found any Taking all in all, we think our county will company of our adjoining counties.

A. D.

PUTNAM COUNTY.

Putnam County Agricultural Society held to exhibition September 6, 7, 8, 9 and 10, 1880.

The grounds are large and finely situated. 'are as follows: A high board fence enclosing channe's hall, produce hall, floral hall and all oth sary, with a sufficient number of stalls to accommattle, and pens for sheep and swine; a splendid speed horses.

Taking in consideration the short time the goccupied, the accommodations are first class.

The Fair, this year, taking the disadvantages I labored into consideration, was a success. The case with its success in a measure, there being a just the principal day, which took away the crowd; fairs through the county tended to decrease the

The pro rata paid was better than was an outlook for next year is very promising.

The show of stock this year was greater the several years, and all the halls were well fille riety of articles of a fine quality.

The display, taken altogether, was a fine on credit to any county in the State.

The coming year, our Fair will have no of township fairs, they having combined with us, make the Fair one that will not only please the one which will pay stock men to attend.

We expect to pay all premiums in full, and pl front ranks of the county fairs of Indiana.

RANDOLPH COUNTY.

Our tenth annual Fair was held on the 15th, 16th, 17th and 18th days of September, 1880, inclusive. The weather was fair, show good and attendance little lighter than former years. Our receipts were not sufficient to pay premiums in full; we paid for all improvements, labor, etc., and seventy cents on premiums.

The show in all the departments was equal, if not greater, than former years. Fruit, poultry, mechanical implements, floral hall and all minor departments showed off to good advantage and was a credit to our good and prosperous county.

As a general thing our farmers all prospered during the year, and harvested bountiful crops.

The condition of our organization is good, and bids fair for success during the ensuing year.

W. Moore, Secretary.

RIPLEY COUNTY.

The Ripley County Agricultural Association held their seventh annual Fair on their grounds at Osgood, August 17, 18, 19 and 20, 1880. The weather was favorable for the first time since our organization, and our Fair a complete success in every respect. We were honored during the Fair with the presence of several distinguished visitors, among the number our lamented Governor Williams, and Adjutant General George W. Russ. The Governor delivered an address on agriculture, closing with some excellent advice to the young, which was well received.

The department of live stock furnished one of the leading attractions during the Fair. Some of the finest show cattle, sheep and hogs in the land were on exhibition, and the competition sharp.

The poultry department was well represented, showing an improvement over former years.

The display in the floral and mechanical halls was better than ever before.

The society made some radical changes in the appearance of their grounds, during the year, by the erection of a large mechanical and agricultural hall. Many stables, stalls and pens were built for the accommodation of stock. Our magnificent half-mile track was put in fine condition, and a scating capacity for over three thousand persons erected.

The society own their grounds and improvements, are out of debt and have money in their treasury.

WILLIAM R. GLASGOW. Secretary.

RUSH COUNTY.

In this, my line of duty in making our annucondition of the Rush County Agricultural Societ bition, I append a statement of number of entthe character of the stock exhibited, and in fact a was up to the spirit of the age.

The receipts are a poor index of the number three hundred stockholders, with their families, twenty-one years of age, enter the gates free of chyear, with its numerous fandangos, always to so the fullest attendance to county organizations, wh the contrary is the effect, as all appointments are 1 to those State exhibitions. All well conducted f healthful stimulus the farmer and artizan have to in their work of progress, which has proved a n decade, and it is well it is so, for famishing would the exertions of every other laudable calling did reward the toil of the husbandman. And I feel 1 sion nor do no one injustice when I would u throughout this land to claim equal laws, equal p several industries, under the genius of our govern lies and aristocracies should not be encouraged when so the toiling millions foot the bills. L

SHELBY COUNTY.

The Shelby County Joint Stock Agricultural their seventh annual Fair, near Shelbyville, durir in September, 1880. The display in the floral hall, was contributed by the ladies, was fully equal if no of our former years. The ladies, not being voters, away by the excitement of a political campaign, horses, cattle, hogs and sheep was very good, entries in the different classes were less than an quality of those exhibited were equal to any ever particular to the during the entire week. Our receipts were suffici penses, and premiums in full, and leave a balance hundred dollars. We have, each year since our formed, made an effort to hold our fair over until \$\frac{8}{2}\$.

and as a result our gate receipts on Saturday have never been under seven hundred, and as high as fourteen hundred dollars. All of our fairs have closed leaving us, after paying all expenses in full, a surplus from four to twenty-two hundred dollars. Had it been our custom to close our fairs on Friday, as most all agricultural associations do, there were several years that our expenses would have exceeded our receipts, and we would have been compelled to borrow money to pay premiums in full. From past experience we can earnestly recommend agricultural associations to hold their fairs over until Saturday evening. There are many items of expense, not increased by so doing. When farmers and mechanics appoint meetings or take a holliday, it is always on Saturday.

The condition of agriculture in our county is prosperous and progressive. Our farmers are taking advantage of the best means of cultivating the soil. Our wheat crop was very good. The quality being above the average. The acreage now sown is equal to last year, and went into the winter in good condition. Corn—the yield was not large, but quality good. Oats was a failure. Hay an average crop. Fruit was fair and of average quality. Vegetables of all kinds were good and fully up to the average.

A. J. GORGAS, Secretary.

STEUBEN COUNTY.

The Steuben County Agricultural Association held its fifth annual Fair on their grounds one mile north of Angola, on the 28th, 29th and 30th of September and October 1, 1880. The fair was a success, though it was cold and disagreeable on the first and second days, and rained in the forenoon of the last day. On the third day we had an immense crowd, the weather as fine as could be. The exhibition of cattle and horses good; better than last year. In sheep good; about the same as last year. In hogs not good, but about the same as last year. The display of fruits was exceedingly good; double that of any previous year. The display of field crops good; also, that of machinery, farm implements, wagons, buggies and sleighs.

The display in floral hall surpassed that of last year, both in artistic arrangement and in number of entries.

The speed ring about the same as last year; not a success.

The condition of agriculture in our county is good. Most of our farmers take some agricultural journal, and our State and county

20—AGR. REPORT.

papers have a farm department. By so doing coming posted in all that pertains to their busi

Our wheat was large and of good quality. (good quality. Hay, oats and potatoes good. ever fail to have a fair crop. Our farms ar gravel soil, and rain and drought do not effe other parts of the State, and we have a great m protect from frosts.

B. F.

TIPPECANOE COUNTY

The annual Fair of the Tippecanoe County tion for 1880, was held at Lafayette on the 30tl gust, and the 1st, 2d, 3d and 4th days of Septestanding the extreme heat and heavy rains of proved a complete success financially, and ir various departments.

While the horses, cattle, sheep and swine exnumerous as at the Fair of 1879, they were fit ticular, and made a better display than ever poultry, agricultural, horticultural, mechanic ments, the display has never been equaled.

The condition of agriculture is not so favore in 1879.

The wheat crop was of large yield and excel Corn. Not over half a crop, and poor in qua Oats. Generally a failure.

Hay. While there was only a moderate yie cellent.

Atatoes. In yield, almost nothing; in qualit Cabbage. Of no account whatever.

Fruit. Generally abundant and of good qua

TIPTON COUNTY.

The third annual Fair of the Tipton Count held on its grounds, conveniently located one of the town of Tipton, 21st to 24th of Septer. grounds are located on the banks of Cicero water facilities.

COUNTY AND DISTRICT REPORTS.

The Fair was successful in all its departments. The show and speed ring were especially interesting feat Fair. The display in floral and fine art halls was crefell short of last year's exhibition.

A great interest in poultry has recently grown up in and the show in that department was a large increase ov Almost every variety of domestic fowl, from the mamu the Plymouth Rock and the proud black-breasted game to a number of varieties of bantams. In addition to the were wild geese, bald and golden eagles, horned owls, e

The business men of our town contributed no little to of our fair by the display they made of their goods and

The crops of this county for the year 1880 were a main. Corn is the staple crop, which was about one-Wheat was more than an average. Oats and grass Potatoes short. Fruit light. Hog crop was large in shipped, but light in weight. The cholera prevailed in of our county, but not to an alarming extent. A gree has been taken of late years by our farmers in breeding fine cattle and sheep. Several good herds of short own to be seen in our county.

The gravel road mentioned in last report has been from the county seat to the county line north, a dista and one-half miles, and two more granted, with fair preveral more. We have, indeed, reached the era of implications, better roads, macadamized streets in our countrick and mortar may be seen going up throughout our country, and the sound of the saw and hammer head direction.

WILLIAM BARLOW

VIGO COUNTY.

The society has prospered during the year. Our F attended, and the display good. Barnum's show came on our principal day, and was packed full, both afternoing—thereby reducing our anticipated receipts one the lars—which compelled us to pay part of our premium which, however, has been our established custom for some which it was been our established custom for some offer liberal premiums, payable "pro rata," and proper cent as we can. This, we believe, is better than longial in full.

We, this year, allowed exhibitors to make as many en

wished with the same article or animal, well.

The Terre Haute Horticultural Society a fruits, flowers, bread, butter, cakes, etc., an a success.

As heretofore, we had good trials of specoclock. We gave \$1,000 in premiums for entries, for each race, at ten per cent entry i one-half of the purse before the race began.

The people all seemed interested in the of the day nothing else is attended to. The

We never allow gambling on the grounds one stand for selling beer, and required it t rooms or curtains, so that every one could No other liquors were sold, and there was the grounds during the Fair. Our justice of on the grounds during the week, but not a s

Our crops this year have been good, all twere a failure, except where they were growss good, except in the Wabash bottoms, and late as July 1. Three plantings were a stroyed. Wheat was a good crop, but not e

Our city has grown rapidly during the p stands third in size in the State. Josep

WABASH COUNTY

The twenty-eighth annual exhibition of the ricultural Society was held on the Fair a Wabash, September 7, 8, 9 and 10, 1880, and every respect. The ground purchased by the 1879, and added to the already fine grounds one of the very prettiest grounds for agricultures. Our board built a new track the punch to our exhibition in the way of speed and a great many other improvements, very

The show of stock in 1880 was some be past; in fact, our farmers are raising the ve

The weather was good all during our Fapleasure of visitors.

wheat was very good; the best ever in t p was very light.

ite an interest in the breeding of fine pore made each year in this department.

GEO. W. PAULING, Secretary

WARREN COUNTY.

ty Agricultural Joint Stock Company he Fair at West Labanon, September 6 to its organization has endeavored to sustabilitural and manufacturing interests of t containing thirty acres, are under good fen ell watered, provided with good stalls a such grounds.

, and the great number of grand rallies, boring fairs held on the same week, did mu tendance. The entries of stock, although r mer years, yet in quality showed a mark ly is this so in cattle, sheep, hogs and poult is were shown by Mr. H. D. Thomas, but the din numbers and quality. In hogs, if improvement—less bone and more flew diness to fatten at any age, seeming to be the ught for by breeders. The breeds known China were more largely represented the lass done little damage here for eighter hopes that in the future we may not

escriptions of fast horses, are receiving mue, but the Percheron, Clydesdale, Coberg as are received with more than ordinary favetable and root-crops was much greater the dethe available room was well occupied a grass and seeds.

a leading feature of the fair this year, and it a most commendable rivalry exists amor oduce the very best.

ment there is a constant increase in intere in culture of choice plants and beautif rarity in this county, and the idea that t ought to be realized by those devoted to t than any other interest in our communi In the mechanical department, including imp machinery, textile fabrics, leather, cloth, wood ar were far in advance of any former years.

Fine art and ladies' work were mostly monoper. The show was really grand and proves a stead design and workmanship.

Notwithstanding this was the "off" year for faces financially, and after paying all premiums i five hundred dollars in the treasury.

JAMES C. I

WARRICK COUNTY.

The Warrick County Agricultural and Horticits twenty-third annual exhibition October 13 to

The grounds, consisting of twenty acres, are west of Boonville, on the Evansville and Southeas grounds are enclosed with a good substantial shaded, well watered, and provided with a large ble of seating several thousand persons. There halls, and plenty of good stalls and pens for all k exhibition this year excelled those of former; the quality and number of stock.

The horse department was well filled, consisting brood mares, draught horses, saddle horses, in especially speed horses

The cattle show far excelled anything we h sisting principally of short horns.

The show of sheep and hogs was excellent.

Peter Taylor, of this county, is making a spec and breeding fine wool sheep, short horn cattle, land China hogs, and deserves great credit for taken to improve the stock of our county, and f ergy in building up this department at our fairs

The poultry department made a very creditab
The floral hall, always the center of attractio
not so well filled this year, owing to the rain and
The display of agricultural implements was ex
CONDITION OF AGRICULTURE

The soil and timber of this county are good corn, wheat, oats, tobacco, clover, grass, fruits, ar

kinds.

COUNTY AND DISTRICT REPORTS.

This county is almost entirely underlaid with splendid with the present railroad facilities is very profitable to the

The crops of this county were very good last year, and pects this year are excellent.

The exports in wheat, hay, hogs, cattle and tobacco h and are now, very good, and are a source of great wealt county.

The financial condition of this society is good, having on bands and no outstanding debts. WM. R. WILSON, S.

This year will long be remembered by our people, as a ous and fruitful season; one noted for the uniform good the people, as well as the absence of destructive storms a

The wheat crop was good, berry plump and quality Harvest early and secured in prime condition, and nearly ers profited by past experience, either stacked or put the under shelter at once.

Corn. Two-thirds crop, sound and good.

Hay. Fair crop.

Fruit. Abundant, except peaches, which was only crop.

The "crop" of pork was large but not as fat as former! farmers feed large droves of cattle for spring market. I beef cattle is rapidly increasing. Sheep husbandry is al well, and there are many more kept in this county than every contract of the second s

Great quantities of coal are mined in this county, and ness is rapidly increasing.

This year also marks the era of the completion of a through the county, thus giving much better market facmany portions of our county.

One of our greatest needs at present is a "tile" factor is used is either shipped on cars or hauled a long di wagons, thus adding largely to the expense of draining a notwithstanding which tile draining is fairly introduced haps no point in southern Indiana offers a better induce such a business than Boonville, the county seat of this cou

The demand for farm hands has been well supplied a five cents to one dollar per day, without board, and ten dollars per month, with board. Harvest wages have about \$1.25 to \$1.50 per day, with board. Our schools are prosperous, averaging nearly six months per year, and ger farmers are doing well, which is shown by the miles of p erected and many fine barns and farm houses built duri year.

W. T. Stone,

WAYNE COUNTY.

This county held its thirteenth annual Fair on their grounds ar Centerville, on the 22d, 28d and 24th of September, 1880. The see was unfavorable on account of a large mass meeting of one of political parties, being held at Richmond on the principal day our exhibition, and also other circumstances and meetings. The endance was small and the receipts fell short of the expenses. e paid but fifty cents on the dollar of premiums. The directors I disposed to try again, and are determined to hold a Fair next ptember.

WM. F. King, Secretary.

WELLS COUNTY.

The fourteenth annual Fair of the Wells County Agricultural ciety was held near Bluffton, on the grounds usually occupied by society, September 21, 22, 23 and 24, 1880.

It being campaign year it was hard to work up the agricultural inest in our county, and it seemed that fate was against us during? Fair week. On Thursday of our Fair, there were three promint political speakers spoke in and near the town, and one of those ing the "noted" B. F. Butler, every body seemed filled with a riosity to see him, rushed to the grove where he spoke, instead of ing to the Fair. Nothwithstanding, we had a big day, and our repts that day were over \$800, which crowned our efforts with sucse. The number of entries in the various departments were up former years, and some departments far excelled former years. The horse department was very good, having some of the finest aft stallions and colts that were ever exhibited in the county.

The cattle show was fine. We had a new attraction in cattle in a county this year, being a fine lot of Alderneys, exhibited by short Simonton and J. J. Amos, of Huntington county. We also d a fine lot of short-horns on exhibition.

Our swine department was good, but not as many entries as ual.

The sheep department was ahead of anything we ever had.

The farm and orchard products excelled in quality, if not in antity, our former exhibitions.

As to floral hall, it was filled to overflowing, and had not enough om to display near all the articles brought there for exhibition. e ladies of our town and county are entitled to a share of the

COUNTY AND DISTRICT REPORTS.

credit for the success of our Fair. We also thank some for ladies for contributing to the exhibits in floral hall. If our would all take as much interest in their departments as the do, our county fairs would all be grand successes everywhere.

CROPS.

Our wheat crop last harvest was good in quality, but not last year in quantity.

Our corn crop was very poor, not over half crop, wet spring dry summer cause of failure. Oats poor quality. Potatoes no crop and small. Hay good in quality, but not as much a usual; all put up without rain.

The farmers are still continuing their good work of ditchin under draining, and the time is not far distant when Wells cowill be one of the best farming districts in the State.

JAS. R. BENNETT, Secret

WHITLEY COUNTY.

Our county fair for 1880 was, owing to the high political e ment at the time, the first week in October, a partial failu compared with our success in 1879. Our association is in shape. We are out of debt, have made good and substantis provements this year, and have a balance in the treasury of \$300. Our people, in a general way, take interest in our Wishing the agricultural interests success throughout the State.

ISAIAH B. McDonald, Secret.

BRIDGETON UNION.

The society held their nineteenth annual Fair in the tor Bridgeton, Parke county, Indiana, commencing August 25 closing the 28th. The weather was fine during the entire weel the fair was a success in all respects. The show in all of the partments was good, especially was this the case in the wordepartment. The fine art hall is large and commodious, but a not hold the goods placed on exhibition without piling on a teach other, and the committee had great difficulty in finding a articles. The financial condition of the society is in good a

Paid all expenses and premiums in full, and have commence the next year with. The condition of the district, is improving very fast. There is a ciety in each county composing the district. Paizing and holding a fair in the year 1880, was time. There has been quite an improvement in call kinds since the organization of the society, at the case within the last two or three years in shimprovement in some portions of the district being used both for fallow and in corn. The fatheir attention to the cultivation of clover, follow

RECEIPTS AND EXPENDITURES

Jan. 3, 1880, balance on hand
Gate Fees
Privileges sold
Feed sold
Entry Fees
Wood and Lumber
Total receiptsGeneral expense orders
Paid on premiums
Total expenses
Leaving a balance of
D. 8

CAMBRIDGE CITY AGRICULTURAL AT PARK ASSOCIATION.

We did not hold any Fair in 1880, and it has a settled whether we will hold one in 1881. Belomy ideas of how Fair grounds should be own viz:

The State Board of Agriculture should reque the Legislature to enact a law allowing all cities their respective grounds to be used for all put as a park, for stock sales, etc., and I think that i eficial to all pursuits. Geo. W. Shur.

INTY AND DISTRICT REPORTS.

IRK UNION FAIR ASSOCIATION.

was founded on the ruins of the Dunkirk Mechanical Association, which became in at in October, 1879. The new association ock principle, and began its existence wi \$400) in the treasury. Our first exhibit we naturally expected, owing to the bad left. Consequently, the receipts were nepremiums and expenses, accordingly recoufund, which enabled us to honorably dis

f agriculture is improving. A mania fo ly throughout this neighborhood, two til nish tile sufficient to meet the demand. I to have sprung up among farmers as to nds the most thoroughly. Already the f ave begun to appear in the shape of initisfactory tillage.

our next Fair is very promising, the indi th propitious weather we will be enabled a, after paying premiums and expenses.

JOHN T. SUTTON, Sec.

EDINBURG UNION.

ith the statistical information of the cond on Agricultural Society, I submit the fo of agricultural affairs in this district dur

been favored with a bountiful crop of w inary course of events would have been but which, in comparison with the ext 79, showed some falling off—yet the in total product nearly as large as the preity was all that could be desired. The Fu ading variety, and is improving in milling a nearly fulfill the requirements of new emand is urgent for some variety of hard it millers and come somewhere near the rieties. I would urge the necessity of reason why

wheat should not be shipped in a manufactured state, ing the cost of transportation on the offal, which cou stock to good advantage, as is now done with the entiduct of this section, and the individual or society which duce such a wheat will be deserving of the lasting gratifarming community.

There is a growing tendency each year to put more I and less in corn, or other crops that require much we perfection to which the self binding reaper has been ready enables the farmer, with the assistance of his far ary hired hands, to do the entire harvesting of the c employing a large number of extra hands at extrava and materially lessens the cost of production. The stacked, it can be threshed at leisure, and as the past have been unfavorable for the corn crop, we may loo increased production of wheat until the price falls belo basis.

The corn crop of 1880 is of most excellent quality, be mer drought cut short the yield. Fifty bushels per accrop for this season, and the average is not over thirty-which is about two-thirds of our usual amount.

Three starch factories and three hominy mills, within twenty miles, consume the entire corn product of this prices which leave the farmer little room for complain

Other crops than these make but little figure in a Oats were a failure. Rye is not grown here to any ext was short, but realized a paying figure. Potatoes were crop. Hay crop short; clover seed but little saved, ruled so low that farmer's claim it will not pay to w Our fruit crop was fair, but not large.

In cattle this section maintains its reputation, our being always outside quotations at home, or eastern marks number of hogs are also raised, and, as packing is now all seasons, they can be marketed, without loss, at any a

Altogether we have realized a fair share of prosperit good reason to congratulate ourselves on our progress.

C. M. A. HESS.

FOUNTAIN, WARREN AND VERMILLIO

The Fountain, Warren and Vermillion District Agri ciety held their twenty-first annual Fair on their grou

COUNTY AND DISTRICT REPORTS.

ington, September 21 to 24, inclusive. We had a much I tendance than at any previous Fair. It rained one evenir commencement of the Fair, which laid the dust and made pleasant.

The show of stock was not as good as formerly, but the in agricultural and horticultural halls, and textile fabrics ver than we ever had, and will cause us to erect new building have purchased seven and one-half more acres of ground, year erected a new sheep and hog building which cost or We have run our Fair on strictly temperance principles years, and we owe our success to that fact. The grounds thirty acres, half mile track, commodious amphitheater, shade trees, and the best of pure water. Messrs. Benj. Bits Col. James McMannomy, having served as directors for tw years, have resigned for younger men. To their manager owe, in a great measure, the success of the Fair, as in the twenty-one years we have not failed to pay all premiums a tised in cash, and have a surplus of one thousand dollar treasury.

The wheat crop in our district was not as good as 18 greater amount was raised, more acreage being planted.

The corn crop was not good, as the Wabash river, which boundary line of the three counties, was out of its banks fitimes during the spring and summer, causing a partial fithe corn crop.

The oats and potato crops were failures on account of weather. Not enough potatoes were raised to supply the I mand.

Fruit crop good. Apples above the average, large quaning made into cider and vinegar.

Horses, cattle and hogs are the principal stock dealt in was but little hog cholera last year compared to previous y

The soil of our counties is varied—river bottom, hilly and rich prairie, and are the best watered counties in the

Plenty of gravel and a few gravel roads.

Large quantities of good stone coal are mined seven milof Covington for Chicago market.

Fourteen tile manufactories in the three counties.

Sheep industry a failure, as the dogs kill more than are Rail fences are still in use in the country, and barbed wi prairies.

HOMER SEWELL, Se

HENRY, MADISON AND DELAWARE.

The list of entries at our last annual Fair, which valuest, was not quite so large as in some former year good. The premiums paid were about nine hundred desociety paid four hundred dollars on its debt, leaving an it of only one hundred and fifty dollars, which amount been paid this year had we not met with a loss by fire t in burning considerable fencing and stalls.

The condition of agriculture in our district is graphed proving, and the science of farming is becoming better A great many of our farmers take some leading agricultor journals, and thereby keep themselves posted in all the ments of farming. The wheat crop of 1880 was large if fine in quality. The corn crop was much damaged by in the early part of the season and the drought in the Potatoes were almost a failure. Garden products we The apple crop was fair, as also small fruits.

The farmers in this district seem to be giving more at the raising of cattle, hogs, horses and especially sheep, the past season has been very favorable to the farmers, ciety seems to be in a healthy and flourishing conbranches of trade have been good. Merchants have had a and mechanics all they could do.

J. D. FARRELL,

KNIGHTSTOWN UNION.

The twenty-eighth annual exhibition of this Society the 81st of August and 1st, 2d and 3d of September, 1880, the "rainy week" of the season, we shared alike with a hibitions which came at that time, in the falling off of a display in some of the departments, yet our success was but not what the officers were expecting from the indivious to the opening week.

We do not look upon the large amount of money r handled as the best test of progress and benefits of these but it is the interest manifested by the exhibitors, as ceptible signs of progress made in superior stock, pro soil, improved machinery and advancement in all branch try, that make them especially useful to the young mentering upon their allotted or chosen callings.

COUNTY AND DISTRICT REPO

One suggestion, seemingly not out of place in annual Delegate State Board: We meet for t sidering the best interests of the State Fair, and The delegates are sent by the various societies, representatives and are, or should be, interest ganizations. Now, instead of occupying so much session in discussing culture of crops, treatment etc., etc., which is so fully, interesting and abl the journals specially devoted to these and kin which all can read at our leisure and profit, let with questions concerning the best mode of 1 State Fair and the various county and district delegates report any new features they may success or failure, so that all may be benefitted These matters would certainly attract the in board and be of direct benefit to those whom the GORDON H

LOOGOOTEE DISTRICT.

The annual Fair of the Loogootee Agriculti Association was held September 14, 15, 16, 1 weather during the whole week was very favibut in consequence of the great political excite was impossible to get the attention of the pec part of the week, political meetings being held of the grounds during every day of our Fair. this into consideration (which is the most we ewith), we feel like congratulating ourselves year. We spared no expense in making our and we were told by visitors "Your grounds and in the best order of any in the State."

Our entries fell short in every department filled up by the ladies.

The floral hall was filled with the finest and exhibited in it, which proves that our ladies their interest in our exhibition.

Our receipts this year did not enable us to per cut the premiums 20 per cent, for the first tim we do not expect this will ever occur again. We condition is as good as could be expected—have indebtedness and other disadvantages for se

now own ground which we value at \$500, and our indebtedness is only about eighty or ninety dollars.

The crops in this community this year were good. We have raised plenty of everything that is usually produced by our soil.

We think our society and also the industrious part of our community are in a prosperous condition. C. S. Wood, Secretary.

NEW ROSS.

Our exhibition was held on August 16 to 20, inclusive, and was a decided success, the receipts being in excess of all demands against our organization—a deferred hope realized, after four years of hard struggling against adversity, and many other obstacles that loom up in the face of agricultural societies.

The number of entries in the live stock department was five hundred and eighty-seven, and the amount of premiums paid on the same, was one thousand six hundred and fifty-eight dollars.

In class 6, sweepstakes for horses, there were forty entries on stallions alone, some of which would have done credit to a State organization.

The cattle department was represented with stock owned and bred by J. W. McCowai, D. Evans, Elijah Clore, J. Baugh & Son, J. P. Hyner & Son, and other breeders of thoroughbred stock.

Our Fair grounds are in good condition, and peculiarly adapted for the purposes for which they are now used, there being a gradual elevation from the speed ring eastward, thereby affording all a splendid view of the speed ring during the races, without the necessity of being half smothered in an over filled amphitheater, as are most of fair grounds. While the buildings on our grounds are not fine, they are substantial and durable, they being well framed weatherboarded and roofed with pine shingles.

In conclusion, there is one question to which I would call the attention of your honorable body. Why do so many agricultural societies offer more money in premiums than they can pay in full, when all agree that there is no one evil that contributes so much to the distruction of agricultural societies as a failure to pay all contracts in full?

By a careful examination of my book for the past three years I find the following to be true: That 13½ per cent. of premiums offered are not entered for, and as a rule all agricultural societies deduct 10 per cent. of premiums when paid, and one-half of one per

claimed, making a total of 24 per cent. to it of cash premiums offered.

uld be a safe calculation for all execut premium lists. To illustrate, say a ox emium list offering three thousand doll first thing to be considered is how ma pay the premiums. If my calculation twenty-two hundred and eighty dollars d, exclusive of all other expenses. committees who prepare premium list er offer more in premiums than in th ald be able to pay with the receipts of list was made. And to arrive at a pro-I think committees who prepare premi age receipts of former years and comp d the premiums offered be greater th pts, it would, in my judgment, be wise ms.

take up the above question so feebly g it and thoroughly impress it upon. in such manner that it will check toffering more money in premiums thope you may have a good representation, and through your wise deliberation on the great agricultural interests of a T. A. ADKINS, Secretary

IEASTERN INDIANA.

380, a storm blew down the fence on including a large number of cattle stattroyed at the same time. These have able expense, but in a more substan of over one thousand dollars. So done, and another well added to the number weather during the entire week of attendance was not quite so good as the fact that several political meeting adjoining counties at the same times at the same times at the week.

Entries were very numerous, being in all classes 2,165, an increase of 131 over the number of entries in 1879.

Articles on exhibition were unusually good, especially in floral hall, and in stock and machinery. The exhibit in canned fruits, jellies, etc., in the ladies' department, was unusually large, and the articles of excellent quality—the best we have ever had in this line.

The total receipts for the year are	\$ 5,821	33
Total expenditures		
These expenditures include,	-	
New stables and fence	\$ 560	00
New sheep stalls	31 0	00
New judges' stand	110	00
One well, about		00

CROPS.

Wheat was two-thirds to three-fourths as good as usual, and quality not equal to other years. Corn, owing to wet season, about three-fourths of a crop. Oats, about same as corn. Potatoes, poor. Apples about two-thirds as good as usual. Peaches, fair. Small fruits, generally abundant, and of good quality.

JAMES A. BARNS, Secretary.

PLAINFIELD AGRICULTURAL AND HORTICULTURAL SOCIETY.

The past season has been one of average prosperity in agriculture in this vicinity.

Corn half crop; wheat good; hay average in quantity and quality; oats poor; grass fair.

Vegetables—Potatoes a total failure; sweet potatoes good; cabbage one-fourth crop; turnips poor; garden products good.

Live Stock.—Horses, cattle, hogs and sheep have done well. Poultry fair.

Entomology.—Insects were more numerous than common, and their depredations more extensive.

Ornithology.—Birds of all kinds fewer in number than usual.

W. H. WHITE, Secretary.

RUSSELLVILLE UNION.

The society held its twenty-fourth Fair near Russellville, Putnam county, August 23 to 28. Our former fairs for the last year or two

have had to contend with a great deal of rain. It was the reverse at our last exhibition, the weather being very warm and dusty, which made it rather disagreeable. Notwithstanding, our fair was a grand success in every particular. Our premiums were liberal and paid in full. The total number of entries at our last exhibition was thirteen hundred and twenty.

The show of horses was excellent; being hard to beat at any county or district fair. The cattle show was the finest ever held on our grounds. J. Gains & Son, of Illinois, had their fine herd on exhibition; also, E. Clore, of Fountain county, who carried off several premiums at our last State Fair. He had two herds on exhibition. We could mention others who had excellent stock there. Our hog show was fine. The different breeds exhibited were Chester White, Poland China and Jersey Red. The show in the sheep department was not so good as that of some of our former exhibitions. The display in the floral hall was fine. All available space was occupied, and filled to its utmost capacity. The exhibition in the other departments was creditable, but might have been better. Taking the exhibition as a whole, it was a success. The display in the agricultural department was the best ever seen on our grounds. Self-binders, reapers, mowers, drills and plows; in fact, everything the farmer wants to till the soil was on exhibition.

CROPS.

The crops of 1880 were not as good as the former year.

Wheat—Good as to quantity and quality.

Corn—Crop was short owing to wet weather in the spring, and want of rain when it began to shoot; about two-thirds of a crop was raised.

Oats—A failure.

Apples and Peaches—Good.

The crop now seeded is large, and was put in with great care.

Ptatoes.—The crop was hardly an average, and the quality only fair. In many instances the tubers failed to mature.

There is growing an interest in our community at present in the dairy interest. There are agents established here to gather the cream from the farmers twice a week and send it to Indianapolis, to the creamery, which in return they receive more per inch for the cream than they could realize out of the butter, to say nothing about the trouble of making it. This is an industry that should receive the attention of the farmers, as they want to make the farm pay the best return for their labor. In conclusion, I may say that agriculture is in a fairly prosperous condition, and the farmers are, as a class, better off than any other portion of the community.

G. S. DURHAM, Secretary.

SOUTH-EASTERN INDIANA.

The South-eastern Agricultural Society is one of the Southern Indiana. It has come to stay. Our fair for tended by copious showers, but the ardor of the meml in the least dampened. Notwithstanding the inclemand the fact that umbrellas and rubber boots were in a fair for 1880 was a complete success. We have been ! as now organized, since 1867, and our last fair was, by a of the lot. We have held our fairs with empty tree weather and divided board of directors, but now we all h of the society at heart, and have, during the last few ye sympathy of the whole community and our success in assured. The annual fair was the first week in Sept Our experience, during the year, proved that good essential to complete success in a fair. The first two d rainy, but to count the persons present during the r the time would be to count the inhabitants of this at counties. Our receipts were sufficient to pay all pr leave a surplus in the treasury. All our departmen filled, especially that to which the Granges contributed ber of entries was double that of our last exhibition. track is entirely too small. The question of enlarging for some time agitated, but in vain. It is due to the in patrons that a larger track be constructed.

A special Grange premium was offered by some of officers, and the show was simply immense.

The exhibition in the agricultural department wa notice. The corn, potatoes, wheat, etc., would have do any fair in the State. The stock show was good. The exhibition were fair. The cattle, as a class, were extra display of wheat extra good; there being more than in this class.

The crops, the past year, taken as a whole, were above The crop of wheat was probably the poorest, not being a two-third yield. Grass was good, but hay, as a staple grown to a very great extent in our county. The ot spring crops were about an average. The timber of c fast being used up. Walnut and oak are being shipp county in great quantities, and the time is near whe fencing or building purposes will be a thing of the passured, from the interest manifested heretofore, that a our fair in the future a decided success.

WILL A. GREER

SWITZERLAND AND OHIO COUNTIES.

Success has almost invariably attended the fairs of this society, and in this respect our twenty-ninth annual exhibition held September 14 to 17, 1880, was no exception to the general rule, unless, perhaps, it was even better than its predecessors. Some had predicted that because of the numerous public meetings being held in all parts of the country, and the unusual political excitement pervading, that the attendance at the Fair would be small, and the people more noisy and ungovernable. The contrary proved true, the crowd was, perhaps, never larger, nor the order better. In the selection of officers, and in the entire management of the affairs of the society, politics are wholly ignored, which, we think, evinces the judgment and wisdom of our people. Our entries were 1,080. The show was good, particularly so in live stock, the agricultural, horticultural, mechanical and ladies' departments. We paid \$1,700 in premiums, expended \$400 in substantial improvements, have paid all claims against the society, and have in the treasury \$891.60.

Our premium list has been revised, and the following officers elected for the ensuing year: President, Harvey Jack; vice-president, J. W. Stewart; secretary, Wm. H. Madison; treasurer, John Shaw; marshal, Alex. Washer; three trustees and twenty directors.

Our next Fair, will be held September 13, 14, 15 and 16, 1881.

With grateful acknowledgments to the patrons and visitors of our fairs in the past, we shall ask and seek their continued favors, and hope for success in 1881.

AGRICULTURE.

In all the pursuits of life we observe a commingling of successes and failures, yet we have thought that there was no other occupation or avocation followed by man, more uncertain in its results, than that of agriculture. We sum up the results of the past year as follows: The spring opened very auspiciously; soon after the corn planting season we had a great amount of rainfall, which, upon our flat clay lands, drowned out, or prevented the tillage of the crop. After the middle of July we had very little rain, and corn on the hill lands was scorched and dried up. We think the yield one-third less than last year. The hay crop was unusually good, and commands a good price. There is not near as much raised as formerly; prices had been low and farmers had plowed up much of their meadow lands.

The wheat crop was very irregular, owing to time of sowing, the ravages of the fly, and other circumstances. Some very good wheat and some very poor; the average perhaps not more than six

or seven bushels per acre, and quality not the best. The yield of straw was large. Rye was almost a failure. The oat crop amounts to but little. The acreage of potatoes planted was very large; the average yield perhaps not more than forty to fifty bushels. Prices very good.

Fruit of all kinds was quite abundant. Peaches, the best for several years. Tobacco culture is rapidly on the increase in this district, and promises to become an important factor in our farm business. Our people are comparatively ignorant of the proper management and handling of this crop, but time and experience can remedy this. Bee culture is also a considerable business. The early season was good; the fall season unfavorable; owing to drought the yield of honey was light. The hog crop we think was rather less than last year, yet the production was large, and prices quite satisfactory. In fact, farm stock and farm products of all kinds bear good prices, and we think that we can see an upward tendency in the values of real estate. Clover as a fertilizer, is becoming more extensively used every year, and its benefits are always apparent. We predict its very general use in the near future, being much cheaper than commercial fertilizers. The dry weather last autumn delayed or prevented the seeding of wheat, and the prospect now is not flattering. The winter up to January, 1881, has been severe, making a brisk demand for forage and fuel. The health of our people has been good and no great casuality has befallen them this year. In general they seem to be hopeful, cheerful and reasonably prosperous. WM. H. MADISON, Secretary.

THORNTOWN UNION.

The eleventh annual Fair of the Thorntown Union Agricultural Society was held on their grounds, one-half mile east of Thorntown, September 20 to 24, inclusive. The weather was pleasant and the society carried out its program with commendable promptness. A combination of circumstances, however, prevented us from having the success we anticipated. A large political rally within a few miles of us on Thursday attracted a great many persons who would otherwise have attended the fair; and this county having held one fair, and the adjoining counties having each had one, and in some instances two, together with the fact that farmers were far behind with their work on account of the long drouth, all combined to make our attendance small. Our exhibition, however, was fully up to the average. The number and character of the entries were

fully up to our expectations. The catttle and horse departments need more than a passing notice. We never had a better showing of good horses on our grounds. The speed ring was full of interest, the races all filling, and the trotting and pacing records mark low in the twenties. Our cattle show was immense. Over sixty entries being made. Such herds as Baugh's, Earhart's and Clore's, competing for our liberal premiums. The floral and agricultural halls were attractive features of our fair, both being well filled. Taken as a whole, our exhibition was first-class, and deserved a much better patronage from the public. Our grounds are held by lease. The society is entirely out of debt, and in a satisfactory financial condition, and we hope officers and people will work together in the future as they have in the past to make this association a benefit to the counties represented.

A. M. Cory, Secretary.

TERRE HAUTE HORTICULTURAL.

The society has had a successful year; the meetings have been held monthly, and always well attended.

On the 27th of May last we celebrated the fifteenth anniversary of our organization. We have done a good work, and there is plenty to do in the future.

At the annual meeting the following officers were elected for the ensuing year: President, Jos. Gilbert; Vice President, R. B. Pegg Secretary, Mrs. L. C. Wonner; Treasurer, Mrs. T. Hulman, Sr. Executive Committee, H. D. Scott, J. F. Soule, Mrs. Jos. Gilbert Mrs. A. Pence, Mrs. Wm. Scholz.

EXHIBIT OF THE AGRICULTURAL SOCIETIES OF INDIANA-1880.

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EXHIBIT OF THE AGRICULTURAL SOCIETIES OF INDIANA, 1880.—Continued.

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EXHIBIT OF THE AGRICULTURAL SOCIETIES OF INDIANA, 1880-Continued.

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EXHIBIT OF THE AGRICULTURAL SOCIETIES OF INDIANA, 1880—Continued.

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EXHIBIT OF INDIANA AGRICULTURAL SOCIETIES, 1880-Continued.

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INDIANA RESOURCES, 1880.

Tha State contains an area of 22,564,870 acres, and is located in the great central basin of North America, nearly equidistant from the Mississippi river on the west, the Allegheny mountains on the east, the Gulf of Mexico on the south, and the water-shed between the great lakes and the Hudson bay on the north. The greater portion of its surface is rather level or undulating, only the southern portion, bordering on the Ohio river, perhaps one-third in extent, being decidedly hilly, and in places almost mountainous. The principal rivers that traverse the State are the Wabash and White rivers, but to these might be added a large number of less importance and smaller drainage, as the Whitewater, the Maumee, the St. Joseph, the Kankakee, the Tippecanoe, the Mississinewa, the Elkhart, the Calumet, and scores of others which flow through different portions of the State, watering its magnificent soil and diversifying its varied scenery.

Indiana stands at the head of the States in railroads and telegraphs, having, in 1880, 4,963 miles of railroad in successful operation, aggregating one mile to every four hundred and twenty of her entire population, being a much larger proportion than in any other section of the civilized world. In addition to this, there are about 1,000 miles of railroad surveyed and in process of construction. The geographical position of the State is such that all through lines of railroad from the eastern cities to the west, southwest and northwest, must almost of necessity cross her borders, as, in fact, they do. A glance at the map will show that the great lakes on the north, and the semi-mountainous country bordering along the Ohio river on the south, will forever compel railway lines seeking a western outlet from New York, Philadelphia and Boston, to cross the State of Indiana. The consequence is, that with what through lines that cross the State, north and south lines that intersect them, and local

lines that tap and connect both, Indiana has the most complete railroad system of any State in the Union. Her position relative to the southwestern States is equally fortunate, since the vast commerce that is destined to grow up between them and the middle and eastern States, must, inevitably seek this route.

There are improved and under cultivation 10,104,279 acres of land. The State contains 7,189,334 or 39.6 per cent. of wood land having 8 per cent. more than Ohio on the east, and 20 per cent. more than Illinois on the west. Of prairie land there are 3,760,812 acres, or one-sixth the entire State, lying principally in the north and northwest, (included in this estimate, are the oak-openings of the northern counties). Of other unimproved land, water courses, etc., there are 1,510,445 acres.

The average value of farm land is \$20.44 per acre. The State supports an average of sixty souls to each section of land (of 640 acres), with an estimated population of 2,115,420 inhabitants, which, by comparison with foreign countries, is only about one-seventh (1-7) her capacity, being capable of supporting an additional number of 14,884,480.

The total number of school-houses in this State is 9,647; pupils in attendance, 511,283; the value of school property is \$11,817,730, with an annual expenditure of \$2,939,872 for their maintenance.

The State ranks, comparatively, second to no other State in the Union in her system of schools and educational exhibit.

For statistics of products, see tables embodied in this report which give number of bushels of each of the grains grown, and number of live stock.

The amount of rain fall for 1880 was 44.52 inches. The average for ten years, (from 1871 to 1880) is 44.71 inches, showing an abundance of rain necessary for the production of all the cereal crops, and almost entirely preventing the possibility of *drouth*, the occurrence of which is looked for with dread by so many countries.

The location of the State, as noted above, traversed as it is by numerous small rivers and creeks flowing into the Wabash on the west, the Ohio on the south, and the great lakes on the north, afford a great amount of natural drainage.

Indiana is strictly an agricultural State. Nature has given her the soil and climate for producing the cereals in as great abundance, and at as little cost as in any other country of like size on the face of the globe; consequently a very large proportion of the population of the State, as of all the Western States, is engaged in agriculture; but there are also numerous large cities and thrifty towns in the State, some of which have already reached positions of great commercial and manufacturing importance.

She has developed wonderfully in the number and amount of her manufactures, and is now producing nearly every class of laborsaving machinery, furniture, and implements, creating wealth and at the same time advancing the civilization of her people. It is shown by statistics that Indiana has in use more improved agricultural machinery, in proportion to the population, than any other State.

In mineral resources Indiana stands in the very front rank of Of coal and iron, the two great sources of wealth and mainsprings of civilization, she has practically inexhaustible deposits. A vast bed of block or iron smelting coal underlies all the western and southwestern portions of the State, including the counties of Fountain, Parke, Vermillion, Owen, Clay, Sullivan, Knox, Daviess, Martin, Dubois, Pike, Gibson, Warrick, Spencer, Vanderburgh and Posey. This deposit is of incalculable value to the State. The coal is unequaled for smelting iron, and the day can not be far distant when it will induce the building of blast furnaces all along and through the coal basin. Several are now in successful operation, and the business of coal mining at different points is assuming mammoth proportions. In Perry county, on the Ohio river, is a magnificent deposit of cannel coal, which is already extensively mined. Iron ore is also found in large quantities throughout much of the coal region, and the day will undoubtedly come when these two prime elements of manufactures will attract enormous capital and population within her borders. Building stone of all kinds, fire and porcelain clay, ochre and other minerals, are found in abundance, while the supply of all kinds of timber is equal to the demand.

The report of the Chief of the Bureau of Statistics and Geology for 1880, gives the facts and figures to confirm the statements in the foregoing.

The State, with its wonderful resources and rapidly increasing population, lying as it does midway between the Eastern and Western States, combines the advantages of both sections, and draws wealth and substance from each.

COMPARATIVE STATISTICS.

PRODUCTS of the State of Indiana for the years designated, each ending April 1, as collected by the Township Assessors and compiled from the State Auditor's Reports and the Bureau of Statistics.*

Products.	1873.	1874.	1875.	1876.	1877.	1878.	1870.	1890.
Horse, number. Mulee, number. Cattle, number. Hogs, number. Wheat, acres. Oorn, acres. Washey, bushele. Flaxseed, bushele. Wool, pounds Tobacco, pounds	513, 108 92, 005 1, 275, 285 1, 275, 285 2, 876, 228 20, 876, 288 20, 878, 288 20, 880, 564 20, 880, 564 20, 880, 564 20, 880, 564	511,136 91,136,173 1,136,173 2,1046,573 2,1046,573 1,046,573 2,1467,048 2,146	518, 534 60, 439 1, 055, 943 1, 117, 377 2, 118, 069 1, 829, 565 1, 929, 516 1, 934, 195 7, 334, 797 4, 663, 120 149, 938 149, 938 149, 938 177, 241 778, 125 777, 241 778, 125 778, 12	681,861 1,068,821 903,177 903,177 9,455,534 1,462,886 1,556,880 1,556,880 1,556,900 1,556,900 1,578,001 8,678,001 8,678,000 1,578,600 1,578,797 1,718,468	\$38,916 1,067,386 1,067,386 1,771 2,866,999 3,846,999 3,846,999 1,286,781 10,448,120 1,544,414 1,544,414 1,544,414 1,544,414 1,544,414 1,546,896	2000 2000 2000 2000 2000 2000 2000 200	808, 046 1, 056, 143 1, 684, 143 2, 003, 943 8, 517, 808 81, 458 11, 20, 620 11, 804, 048 11, 804, 048	8, 109, 545 8, 130, 347 666, 901 796, 438 47, 130, 664 87, 335, 014 217, 192 15, 663, 430 687, 911

"The figures for the year 1878, 1879 and 1860 are from the Report of the Bureau of Statistion. The figures of 1880 are estimated by the Township Trustees.

INTER-STATE AGRICULTURAL CONVENTION.

The Inter-State Agricultural Convention met as per call of the Secretaries of the Boards of Agriculture of the States of Illinois, Kansas, Iowa, Wisconsin, Indiana and Ohio, at the rooms of the Illinois department of agriculture, Springfield, November 30, 1880.

The meeting was called to order by Secretary S. D. Fisher, of Illinois, who stated the objects of the meeting to be for the purpose of adopting a uniform system of collecting and publishing agricultural statistics, as well as to discuss the best methods of advancing the general interests of agriculture through State Boards of Agriculture.

On motion of L. B. Wing, of Ohio, Dr. R. T. Brown was made chairman by acclamation.

On motion of A. Heron, of Indiana, J. K. Hudson, of Kansas, was made secretary.

On motion of W. I. Chamberlain, of Ohio, Charles F. Mills, of Illinois, was made assistant secretary, and S. D. Fisher, treasurer.

The following gentlemen were reported as being in attendance at the convention:

L. B. Wing, President Ohio State Board of Agriculture.

D. L. Pope, Treasurer	46	"	"			
W. I. Chamberlain, Sec'y	"	"	"			
Leo. Weltz, member	"	···	u			
R. Baker, member	"	"	66			
O. P. Chaney, member	"	"	c6			
C. Smith, member	"	"	46			
S. J. Wooley, member	"	"	46			
Clinton Babbitt, member Wisconsin State Board of Agriculture.						
Joseph Shortledge, President Penn. State Agricultural College.						
H. C. St. Clair, Vice-Pres. Kansas State Board of Agriculture.						

J. K. Hudson, Secretary

Henry T. Sample, Vice-Pres. Indiana State Board of Agriculture.							
Alex. Heron, Secretary	"	66	"				
Dr. R. T. Brown, member	"	66	"				
E. F. Brockway, Vice-Pres. Iowa State Agricultural Society.							
James R. Scott, President 1	Illinois	State Board o	f Agriculture.				
D. B. Gillham, Ex-President	"	66	"				
W. M. Smith, member	u	66	"				
David E. Beaty, member	"		66				
S. D. Fisher, Secretary	"	u •	"				
Charles F. Mills, Ass't Sec'y	"	"	"				

Motion of Mr Chamberlain, carried, that a committee of three beappointed to prepare an order of business.

Motion of Mr. Wing, carried, that the committee on order of business consist of Messrs. Chamberlain, Heron and Fisher.

The secretary read communications from the following gentlemen, expressing regret at not being able to attend the meeting and giving assurance of deep interest in the objects of the convention...

Dr. J. A. Warder, President of the American Forestry Association; George E. Bryant, Secretary Wisconsin State Board of Agriculture; J. P. Roberts, Professor of Agriculture, Cornell University; Chas. W. Murtfeldt, St. Louis; J. R. Shaffer, Secretary Iowa Agricultural Society; H. H. Young, Secretary Board of Immigration of Minnesota; Prof. George E. Morrow, Dean, Illinois Agricultural University; B. F. Johnson, Champaign.

Motion of Mr. Wing, carried, that the correspondence be published with the proceedings.

Chairman committee on Order of Business reported the following exercises for the evening session:

- 1. Outline of the work of the Convention, by W. I. Chamberlain, of Ohio.
- 2. Open letter to the Convention, by Charles W. Murtfeldt, of Missouri.

On motion of Mr. Hudson, the report of the committee was concurred in, and the reading of the papers made the special order.

[The session continued two days and the following named additional papers read and discussed, but the limited space here forbids a full report.—Sec'y.]

Speed ring and the management of State Fairs, by John R. Shaffer, Secretary Iowa Agricultural Society.

The growth of the crop report idea in Illinois, by S. D. Fisher, Secretary Illinois State Board of Agriculture.

The relation of the State Boards of Agriculture to the National Department of Agriculture, by Dr. R. T. Brown, of Indiana State Board of Agriculture.

Crop reports, their scope and value, by W. I. Chamberlain, Secretary Ohio State Board of Agriculture.

Work of the Indiana State Board of Agriculture, by Alex. Heron, Secretary.

Protection for the cattle interest, by L. B. Wing, President Ohio Board of Agriculture.

Our interest in the foreign grain demand, by H. H. Young, Secretary Minnesota State Board of Immigration.

PRELIMINARY PAPER.

BY W. I. CHAMBERLAIN.

Mr. President and Gentleman

of the Inter-State Agricultural Convention:

I am asked to state briefly the objects of this convention. As I understand, we are not here for an intellectual entertainment, but for work; not here for a feast of reason and a flow of soul, but to mature plans of united effort for the benefit of the agricultural interests of the various States we represent. In union there is strength, and we have need of union on various points. Our State Boards of Agriculture grew up in different conditions, and to supply different wants, and are, therefore, diverse in many respects. Our States have grown older and more like one another. Can our Boards be made more harmonious in action, and do a larger and more beneficent work by such unions? Conventions are common now of those engaged in like callings. Lawyers, doctors, divines, bankers, railway men, teachers, county auditors, prosecuting attorneys, merchants, farmers, breeders, etc., all have their conventions. But so far as I am informed, this is the first Inter-State Convention of Boards of Agriculture. I hope it may not be the last.

Now the work done by the different State Boards and the

methods pursued are diverse. But it would take more self-conceit, I am sure, than any of us possess, to suppose that any one Board has the best ends and methods in all respects. Hence, we are, all of us, sure to be the gainers by a friendly comparison of views. I have spoken of the different work and methods in different States. example, in Michigan, the Board of Agriculture has charge of the Agricultural College, and the management (with the assistance of an able faculty) of a series of farmers' institutes throughout the State, whose object is to diffuse a better scientific knowledge of agriculture and horticulture, and better methods of work. Michigan agricultural report is largely made up of the doings of these institutes and the publication of scientific researches, experiments and analysis made at the college. The agricultural statistics are, I believe, published by a special statistician. The State Fair is run by an independent agricultural society, and a large and flourishing horticultural society exists, and publishes a large horticultural report. Thus, four organizations, do the work properly belonging to a department of agriculture. Do they do it better or cheaper, or is work duplicated and expense increased? These questions we may hope to have answered here, under the subject assigned to Judge Bryant. So, again, in Minnesota, there is a Board or Bureau of Immigration, and another of Agriculture and another of Statistics. What should be the relation of these? Is it best to have them united as in Kansas? Secretary Hudson of that State, we hope will help us answer that.

In Iowa, the Agricultural Society runs the State Fair and publishes the annual agricultural report with no aid from the State, except printing the annual volume, not even secretary's salary and office rent, while in Kansas and in Illinois and Tennessee the States give office rent free in the State-house, and give about \$10,000 each in appropriations for the advancement of agriculture. Which is the wiser course? We hope for light on this point and aid for those States where the Legislatures are less liberal.

Ought a State Board to be simply a body of showmen, required to give their time for nothing, and if they make anything devote the surplus to the advancement of agriculture in other directions, and if they lose anything put their hands in their pockets or their names to bank paper and foot the bills as has been done more than once in Iowa and Ohio?

Again puzzling questions of policy and even morals come up in the management of our annual exhibitions. Does the speed ring belong to them? Is the breeding of improved roadsters a legitimate branch of agriculture and the speed ring a proper means of encouraging it? Or is the race always and only evil? Shall beer be allowed on the ground, or side shows and amusement? Then, too, there are questions of detail where uniformity would be an advantage. Shall we charge the exhibitors gate fees, or half fees, or none? Shall we charge an entry fee on articles or stock exhibited? Shall we offer any premiums at all on agricultural machinery? If not, how shall we foster and promote the industries and manufactures that advance agriculture? Shall the red card and ribbon, or the blue denote first premium? On these and other points we hope for light from the papers by Brothers Heron, of Indiana, and Shaffer, of Iowa, and from the discussions they shall elicit.

Again: An exhaustive system of agriculture by grain raising is almost always the first in any new country. How long can it be kept up? Ought Boards of Agriculture to exercise any influence upon the question? When shall stock feeding come in more fully to help to restore the wasting fertility? What is the relation of stock feeding to grain growing? This question is worthy of our consideration and will be discussed by Mr. Wales, of Ohio.

Again: Can State Boards secure promptness and accuracy in reporting the growing and recently harvested crops, and if so, how? Is this an important matter now, and are the times and the farmers and the press and the legislators ripe for it, or not? In this and other matters, what should be our relations as State Boards to the Department of Agriculture at Washington? On these and other points we hope for much aid from the ripe experience of Secretary Fisher, now at the head of a successful Crop Report Bureau in this State, and of Dr. R. T. Brown, an ex-member of the Indiana Board, and former head chemist of the Department of Agriculture at Washington.

These are some of the questions that will come up for our earnest, thoughtful consideration and our wise adjustment.

THE RELATION OF STATE BOARDS OF AGRICULTURE TO THE NATIONAL DEPARTMENT OF AGRICULTURE.

BY DR. R. T. BROWN, OF INDIANA.

The United States has, no doubt, superior manufacturing facilities and rich fields of mineral wealth, while our extended coast line, our great rivers and our long chain of lakes mark our advantages for both domestic and foreign commerce; and yet these several sources of individual and national wealth are, and always will remain subsidiary to our agricultural interests. The production

of food and clothing will always be the leading business of the people of these States. We will wisely diversify our labor no doubt, but still, the center around which all our productive industries must revolve is agriculture, in its broadest and most comprehensive sense—the creation of the raw material from which the food and clothing of the world is made. If this is true, then it follows that a government of the people and for the people should find its first duty in a careful protection and promotion of agriculture.

But neither the State nor national governments have devoted more than a casual and indirect attention to this great interest. Take for example, my own State of Indiana: Our farm products in excess of our consumption, which annually becomes fixed capital, amount to at least \$50,000,000. This goes on the tax duplicate every year, and if it pays but one per cent. on that sum it puts into the treasury half a million of dollars. Out of that sum our Legislature appropriates to the State Board for the encouragement of agriculture the sum of \$1,000. Among the least appropriations made by Congress is that for the support of the department of agriculture. And while that department is placed at the head of the largest and most productive interest in the United States, and one which ultimately pays the largest portion of the revenue, yet it attracts the least attention of anything at Washington.

The very important position of Commissioner of Agriculture is too often filled without regard to qualification for its very complex duties, or any other considerations, than his political or personal relatives to the appointing power. There is no appointment in the patronage of the President that should be made with more care and circumspection than that of Commissioner of Agriculture. He has under his supervision, a statistician, a chemist, an entomologist, a botanist and microscopist. In order that he may intelligently direct each of these divisions of his department, the commissioner should have a fair knowledge of the science involved in them severally, and this demands a man of broad and general scientific at-To all this he must add a practical knowledge of the art of farming, and a broad and comprehensive common sense. Such men are not plenty, yet they can be found, but not without diligent search. The several State authorities come in contact with the agricultural interests at two points, viz: The agricultural colleges and the State Boards of Agriculture. The misfortune that paralyzes the active usefulness of both these institutions is, that while they maintain only an indirect relation to the State, they have no relation to each other, nor to the department at Washington. The result is, that neither realizes the usefulness it is capable of. If the State Board would hold semi-annual sessions, jointly with



the faculty of the agricultural college, and determine the several points to be settled by experiment, the manner in which these experiments are to be conducted, and by whom and under whose supervision, much good might follow. At the end of the year, the results of these experiments should be reported to the State Board, and through it, to the department at Washington. The commissioner, with the assistance of his several heads of divisions, should carefully examine and compare the results of these experiments where they bear on the same points, and observe the influence of local conditions, such as climate, soil, etc. These investigations, with the notes and comments of the department, should be printed in quarterly reports, to be distributed, not through Congressmen to politicians who never read them, but through the State and county boards to practical, intelligent farmers, who can profit by the information conveyed.

We have the material out of which to construct a complete and very efficient organization of the agricultural interests of this country, but this material lies around loose, entirely unorganized.

We have at Washington what was intended to be the head of a great agricultural organization embracing all the States and territories, but it remains merely a head, with no limbs or body through which to act. In nearly all the States we have boards of agriculture, organized by State legislation and acting within their own jurisdiction entirely independent of each other. I think the present convention is the first attempt to obtain concert of action, in any degree, among State Boards. The initiative of this action should have been taken by the department at Washington, years ago—not, indeed, in the spirit of dictation, but by way of invitation for mutual council and advice, to the end that such relations might be established as would bring all the State Boards into direct communication with the department and through it, with one another and with the various experimental stations and agricultural schools of Europe. In this manner we can make an organization that will be a mighty power for promoting all the industrial interests of the country, for whatever promotes agriculture, advances every other industrial interest. In our county and district societies we associate and combine the ultimate elements of force—the individual farmers; and these societies are brought into intimate relations with each other in the State Boards; now establish similar relations between these boards and the national department and we have a complete system through which information can be collected and intelligence distributed at once throughout the nation. There are but two problems to the solution of which the concentrated talent of the whole country should be directed. These are:

INTER-STATE AGRICULTURAL CONVENTION.

1. How can we obtain the greatest possible amount from the soil, with the least possible amount of manual lab

2. How can we best maintain, and if possible, improve tility of the soil while it is yielding us remunerative crops

To the first of these questions the attention of American has been chiefly directed, and the achievements of the century in this line have been very encouraging. We can produce a given value of almost any crop now with less t the personal labor required to produce the same result fi ago. This end has been reached, not so much by the disc new methods of cultivation as by the invention and introd new implements and tools of culture. But this result is no means uniform over the whole of this country. This defe ures the influence of a want of unity and concert of action the methods of work in the several States, which is attains directly through the central department of agriculture. ductiveness of a given amount of labor is a matter of mor tance than is generally recognized. Every improvement, eith quality of crop, mode of cultivation or implement of cultur be carefully examined by competent experts, and whatev may be found, let it be reported by the State Board to the department, to be communicated by it to all the State Boar quarterly reports, and through these to the county and societies; that every advance in the productiveness of labo known in every part of the country, and everybody who avail himself of it may do so.

If the improved modes of culture and farm machinery these Northwestern States were introduced everywhere, products of the country would be increased in value by m dollars, with no increase of manual labor.

The second problem, to-wit: How to grow and sell re tive crops from the farm, and yet maintain its ability to unimpaired, has not received the attention in this country merits entitle it to. At this point, we come into con another element of agricultural progress which we have named. While the county and State boards attend more larly to the art of farming, the agricultural colleges should charge the scientific investigation of such questions as we ally arise in the practical operations of the farm. In the foof these questions, stands the problem of maintaining the of the soil. Chemical analysis will reveal the loss to the so crop sold from the farm, both in amount and kind of mate the schools should be able to direct the farmer as to how best supply this loss. To make a safe and satisfactory se

this problem, the indications of the laboratory should be confirmed by carefully conducted field experiments, and the methods and results should, from time to time, be transmitted to the department and through it, the knowledge thus obtained, should be diffused through the State and county boards. Early attention should be called to the importance of sustaining our soils in their productiveness. It is a great national question. Let our statesmen heed the voice that comes up from the ashes of dead empires. No nation has long survived its ability to feed its population from its own soil. Egypt and China are the only surviving representatives of the great nations of old, and they survive because they have always been able to feed themselves.

I have thus rudely sketched my ideal of an agricultural organization, embracing the whole nation, and diffusing its beneficence, directly or indirectly to all the industries of the country. Let me recapitulate: The several parts of which this organism must be constructed already exist, but in an entirely disorganized state. We have the efficient working organs in our State and county boards, our thinking apparatus in our agricultural colleges, and the directing head in the department at Washington, but being entirely detached, neither can perform its normal functions. The time has arrived when these should be brought into proper relations, and the whole people reap the benefits of this harmonious unity.

WORK OF THE INDIANA STATE BOARD OF AGRI-CULTURE.

BY ALEX. HERON, SECRETARY.

The paper which I propose to read was prepared for this meeting before the subject was assigned to me, as on the last published programme, therefore you will not be surprised should I not "stick to the text." My purpose in the paper was as an introduction, to show what we are doing in Indiana, and compare notes in order to counsel together for mutual interests.

As a representative from Indiana in an Inter-State Agricultural Convention, we will endeavor to give a brief report of the work of our Board of Agriculture, which has been in existence for twenty-nine years. During this period the work of the Board has increased in proportion to the progress of the agricultural interests and thus aided in many ways to facilitate the rapid improvements in every branch of farming.

The agricultural and manufacturing interests are so interwoven

as to be inseparable. The success of the farmer insures prosperity to manufactures, and without the aid of improved machinery and the demand for the products from the manufactures, the agriculturalists would make slow progress. Our board realizes this fact as of paramount importance. Their object and aim is: "To promote and improve the condition of agriculture, horticulture, mechanics, manufacturing and household arts." According to the wording of their constitution, what an immense field for operation, so broad that no one association could cover the ground.

The annual fairs show progress and prove results, and thus aid individuals to compare notes in every sphere of industry with grand results, but in order to more thoroughly develop and distribute this information, we have State Industrial Associations organized for each special branch of agriculture, each working in harmony with and under the auspices of the board. And to complete the grand combination of industrial pursuits, the Woman's State Fair Association is now organized, and in the second year of its existence, with every encouragement from successful working as an auxiliary of the board, in connection with the State Fair, as shown in our annual reports.

The organization of those specially interested in the different branches of agricultural industry has been productive of good results. They take up questions and persist in the investigation more thoroughly than could be expected from a promiscuous body, or general meeting of farmers.

With the rooms of the board for headquarters, and mutual aid from these associations, the board is greatly assisted in promoting the agricultural interests. These organizations (except the State Horticultural Association) have all been organized within a period of nine years, and with one exception in the office of Secretary of the Board of Agriculture.

The National Association of Short-horn Breeders, and Swine Breeders, were also first organized in the rooms of the board.

The second annual meeting of the National Agricultural Congress was held in the same room.

The National Poultry Association have met with us. And the National Butter and Egg Convention was organized there, and has been with us twice.

The Indiana Board of Agriculture is the first on the list of State Fairs, to remove all limits of competition. The first of the States West, to own State Fair grounds, and with the largest and best buildings thereon for exhibition purposes, and run their State Fair at half the price of admission charged by other States.

The first to pay jurors on awards for their serv introduce the feature of no premium on impleme without a test, with a recognition of merit by a perts instead, and the exhibition free of cost to the itors. The immense success attending this "new five years experience is demonstrated by the extendibition in that line, which was limited, only by the enclosure, with forty-one steam engines driving

The agents of several of the leading agricultural ufactories gave it as their opinion that there has a show of implements and machinery in extent and where, and which gave such general satisfaction.

Much as has been done by the board it may be in its infancy, with almost unlimited bounds for now as a main stream, with the almost complete a sociations as branches or auxiliaries, through who concentrated the practical knowledge of experience in the annual reports of the board which are sou near.

The practical benefits of these special associatillustrated by the results from the State Tile Ma Fostered and encouraged by the Board of Agricu ization has grown to such proportions as to requilication (The Drainage Journal) to embrace their meet their desire for information. The result is a ufactories are in successful operation within the sof which it would be difficult to estimate. The were greatly retarded in consequence of the mala low lands, and heavy undergrowth which is now dark forests have disappeared, the wet lands ha and malarial diseases no longer prevail."

Under the auspices of the board the Geological of State was established and controlled, revealing n in the Indiana block coal, and developing fifty squares building stone as demonstrated in the invinecessary for our new State house.

During the twenty-nine years of existence the pended in premiums over \$200,000 in the interestimprovement. Of the ninety-two counties in the have agricultural societies and twenty-one distraction good working order.

The usefulness of the board has been very n years past by the want of authority to collect statis ness. This difficulty is now overcome in a great

JLTURAL

3 now in t inder the ct of the l manufacti statistics (1 a conden ued and di us been per of the boar urate a sys onomy wa , at that to ı we will h orts will r ing sent to rernment, Board to ps and dis the prom increase c mer year The prese nformation cal use for s crops are ational de spirit of in ports of th niform sys voluminou some of th indensed, a zially in re rowing sea two week anges. r prompt to be prau timates of equently le grown our rop, will so it States (a

the prices

It is often the case in secking information for crwe are met with the discouraging remark that all efrection, benefit the speculator more than the producthe point well taken and true to a certain extent, be theless, a protection to the agriculturist in disposing as the dealers have facilities for their own special la formation at all commercial centers. It is the freshformation that makes it valuable, and it is useless if promptly.

We will venture the assertion that any efforts to of crops for the farming community alone will resul so small a proportion of that class can be reached; such reports are more readily transmitted to the community, therefore quarterly reports are as often as can use to the farmer. The winter (January) report, live stock interest, the spring (April) report to acr crops and condition of growing wheat, the summe estimates of grain crops, and condition of the corn as and the fall or October report to the estimate of products.

The enterprise of the leading dailies in the gre centers in giving such extensive and prompt telegr the crops in the growing season do away with the monthly reports from less prompt sources.

During the fifth session of the National Agricultur Philadelphia, a committee of three, consisting of Hor Hon. T. P. James and Hon Alfred Gray, were appoint to appoint sub-committees in the several States and terbusiness it should be to secure uniform legislation States and territories on the subject of the collectiand such legislation by the United States as shall gilliable information in regard to all branches of agriculturing what was needed. If there was anything committee it should be looked up for the use of this formation in the securing what was needed to be a source of the securing what was needed. If there was anything committee it should be looked up for the use of this formation.

The convention assembled on the morning of the conclude the business of the session, which resulted it of the following report from the committee on resolu-

Resolved, That this convention, composed of deleg Boards of Agriculture of the principal stock and States of the west, do unanimously adopt the following

1. That we believe the time has fully arrived who States represented by us should undertake the wo

STATE AGRICULTURAL CONVENTION

rate monthly crop and stock reports dt

r opinion uniform and concerted action is matter will secure results most valuable business interests of the country.

edge ourselves to use our best endeavors legislatures to secure the necessary legis thoroughly efficient, and that we believe the interests of legislatures to furnish lions for the prosecution of a work already as and people.

er to determine the fair market value of live stock products of the United States, the earliest and most complete informatutent of the foreign supply of grain and I for the markets of the world, and the propent are therefore earnestly requested to sular and other foreign service of the complete possible data concerning the action of grain grown in foreign countries growing crops as the season advances.

formation so obtained be given to the sorwarded through the National Departure several State Boards of Agriculturale date after receipt.

everal State Boards of Agriculture, collect tatistics, are requested to reciprocate and he national department of agriculture, as [

onvention recognizes the importance of ium for the dissemination of information and extent of the various crops, and that e, urge upon all engaged in collecting agree ortance of furnishing the press, at the earl condensed results of the agricultural stat

scutive committee, to be appointed, are he are a uniform system of blanks, adapted work of this Inter-State Agricultural Col of crop and live stock statistics.

grain and meat producing States of the y invited to unite with us in our next meat the call of our executive committee. Mr. Heron, the resolutions were taken used adopted. The committee on permanent organization m report, which was, on motion of Mr. St. Clair, ado

Chairman Inter-State Agricultural Convention:

The committee on permanent organization we the appointment of an executive committee of delegated authority to call another meeting of the cultural Convention, at such time and place as the visable.

Respectfully submit

S. D. ALEX CLINI

Motion of Mr. Brockaway, carried, that the execonsist of the Secretaries of Boards of Agricultur Ohio, Illinois, Kansas, Iowa, Indiana, Nebraska, T sota and Wisconsin.

Motion of Mr. Chamberlain, carried, that the at have 2,000 copies of the proceedings and papers, ring, published in pamphlet form, and that the Trithe several State Boards of Agriculture representate share of the expense of printing, and that the represented have the same number of copies of the

The following resolution, introduced by Mr. W adopted:

Resolved, That the thanks of this convention be President, Dr. R. T. Brown, for the courteous and i in which he has discharged his duties as presidir Secretary Fisher and his able assistant for the valuable convention.

On motion of Mr. Babbitt, the convention adjothe call of the executive committee.

R. T. B1

J. K. Hudson, Sceretary.

STATE FAIR ASSOCIA INDIANA.

S OF PROCEEDINGS FOR 189

action of the State Board of Agri "Woman's Department" under 's State Fair Association, and a ses thereof, the association apporemium list for the woman's dep unt of premiums to \$550. The e list, adapting it as nearly as erent classes of exhibitors, and llowed for premiums in a child d boys under sixteen years of age as accepted by the association, h gended for the government of eting it was decided to make an el ums for the work of women and inteered to solicit such premiur iting to \$170.50, were obtained. er the Secretary, Miss Mary D. N ent out 38 letters and 125 postal ition.

ust 17, the executive board me ing of the fair. Delegates were solicit exhibits of woman's wor ightstown, Henry county; Mrs. Mounty, Mrs. A. M. Noe, Marion, (Haute, Vigo county; Mrs. Abunty; Miss M. D. Naylor, Koke James, Edinburg, Johnson count of the woman's department durinary to exhibitors and visitors. Munt, directed the repairs, improvem decided controversies, etc., and by

energy and wise supervision systematized the wo ized the workers. The different classes of articles nearly equal as convenient into six portions, and care of the following ladies: Mrs. Noe, Finch, St and Campbell and Miss James, who were termed perintendents. Each lady arranged the articles u kept them in order during the fair, and carefully together in readiness for their owners at the close of By this system the exhibit was more accurately cla artistically arranged than ever before, and the co ness of the department superintendents made the many blue-coated, brass-buttoned gentlemen of the venting theft. Only one article was lost from over exhibition. The awarding committee, carefully weeks before from different sections of the State, w painstaking, and their decisions, with few exception tion. Further details of the management of the be found in the general superintendent's report. the special premiums added considerably to the a department and increased the number of exhibite

After the fair the disbursing committee held at to audit claims for expenses and labor in the wom (See the general superintendent's report for a finances.)

JANUARY 4,

The association held the first session of its first meeting, under the constitution adopted March, 18 pal business of this meeting was the consideration mendations should be made in the president's rep Board of Agriculture. In the afternoon of the same E. Haggart, as president of the association, general of the woman's department, and chairman of the mittee, submitted her annual report to the State B ture. The report and its recommendations were remittee, who reported Wednesday morning. [For ports, see regular proceedings of the State Board of the first part of this volume.]

WEDNESDAY MORNING

The association met in the rooms of the State secretary being absent, Mrs. Adkinson was appoint minutes of the meeting. By consent, the reading ports was deferred until the completion of other the transaction of some miscellaneous business, m

WOMAN'S STATE FAIR ASSOCIATION.

and adopted, that the constitution and by-laws be read by a with view to making some amendments. Article 8 was a by inserting the words in brackets, making it read as follow

Applicants for membership shall be recommended by a r of the association, at any meeting, and by consent of the r of the members present, [and upon signing the constitution be received.

Section 3 of the by-laws, was amended so as to require th tary to be a resident of Indianapolis. No other change deemed necessary.

The association then proceeded to the annual election of with the following result:

President, Mrs. Mary E. Haggart; vice-president, Mrs. Brown; secretary, Mrs. F. M. Adkinson; disbursing con Mrs. M. E. Haggart, Mrs. A. M. Noe, Mrs. M. M. Finch, Mr Townsend, Miss Ida A. James.

Mrs. Haggart read the report submitted to the State B Agriculture the day before, and Mrs. Adkinson read the i financial exhibit filed with the Secretary of the State Board. reports were favorably received and adopted. Adjourned.

FERRUARY 8, 2

The Executive Board met to consult with the State Board riculture, concerning the recommendations made by Mrs. F in her report of the woman's department. At the morning of the State Board, the matter was referred to a committee, ing of Messrs. Haynes, Sunman and Custer. This commit ported in the afternoon, recommending the adoption of par measures, and referring the others to the State Board. lengthy discussion, in which, by courtesy of the State Board woman's executive board participated, the State Board of I ture adopted the following recommendations:

That \$1,000 be appropriated for payment of premiums a rent expenses in the woman's department.

That \$200 additional be appropriated for permanent in ments, decorations, etc.

That all work done by women not entered to compete f miums in other departments be included in the woman's ment.

That the association shall have complete control of the w department.

It was finally held in the discussion on this point, that the complete control should mean complete control, and incluright to sell or rent space.

That the association be allowed to disburse all moneys except for payment of premiums.

That the association shall select the awarding committees for the woman's department.

The request that the moneys earned by the association be allowed to remain in their treasury, was amended to read "remain in the general treasury of the State Board."

On Thursday afternoon, February 10, Mrs. Adkinson, as representative of the executive board, submitted to the State Board of Agriculture, through Mr. Mutz, who moved its adoption, the following resolution:

WHEREAS, The Women's State Fair Association in 1880, earned the sum of \$16 by the renting of show cases in the woman's department, therefore be it

Resolved, That the Woman's Association is entitled to that amount in addition to the regular appropriation, to use for the prosecution of general State work.

Adopted without a dissenting voice.

The action of the State Board of Agriculture at their February session clearly defines the authority, jurisdiction and means of the Woman's State Fair Association for 1881. The members and officers of the Woman's Association duly appreciate the confidence reposed in their judgment and integrity by the State Board, and take pleasure in acknowledging the courtesy and co-operation of that body, in the work of promoting women's industrial interests.

FLORENCE M. ADKINSON, Secretary.

Indianapolis, Ind., March 1, 1881.

T-HORN BREEDERS, 1880

TUESDAY, MAY 2

met at the rooms of the State Board absence of the president, Robt. Ma appointed temporary chairman.

. W. Thrasher, the chair appointed J and T. W. W. Sunman committee t neeting, said committee to report at association adjourned.

AFTERNOON SESSION.

appointed at the morning session receives of a reporter for twelve dollars if the session extende

INS ON THE DEATH OF JUDGE CRAVE

offered the following:

- e Providence of God, who rules the our beloved citizen and ex-president oved from us by death; therefore,
- e feel that we have lost a valuable ood citizen, and that we cherish his mons, and deeply sympathize with his s; and that our secretary be authory of this resolution.

ided its adoption.

REMARKS.

I feel like I could hardly let these few remarks. I have known Judg and can vouch for every thing the I for some things that are not sai ill a self-made man; a man among men—farmers. He made his mark for good, and by the citizens of his county in being elected judge a position he filled with satisfaction to all concern what we call one of our common men, and yet he reand became more than an ordinary citizen. Such a should be always eulogized. He was a good, hospital all about him, and I regarded him as an excellent death we have lost a valuable citizen.

Thomas Wilhoit. I have been intimately acquainte Cravens a number of years. I found him one am men; an enterprising man. He was, as has been a judge and he made a first-class official. He was star young man in the short-horn business, and was makkind of a start.

S. F. Lockridge. I knew our former associate maknow him to have been all that is said of him in the I think it is proper that such a resolution be passed ation.

Thomas Nelson. I had considerable acquaintance Cravens, while a member of the State Board of Agran endorse all that has been said in these resolutions last at the Butter, Egg and Cheese Convention in the three weeks ago. He was complaining of ill-health the think he was so near his end.

The resolution was adopted.

J. W. Robe, of Greencastle, read the following essay

THE MILKING QUALITIES OF SHORTH

HOW DEVELOPED, HOW MAINTAINED, AND AT WHAT AG
IN ORDER TO DEVELOP THE BEST MILKING QUAI

This is a subject full of vital importance to everbreeder, and I may say to the whole country; and one at least half their utility depends.

I do not intend to attempt to say all that may be favor as milkers upon this occasion, but to speak of a ancient dairy qualities, and show how well they hat many of them are yet adapted to the dairy and as fan why they should be the exclusive cattle of this countr

I am aware that an impression does prevail with sor horns will do for beef, but they are poor milkers.

It is a fact that many of our short-horn breeder their attention to the form and symmetry of the body pedigree, to the neglect of the milking qualities, to a

SHORT-HORN BREEDERS.

ly impaired as milkers, and from this the inbroad.

is gained their first notoriety in England for and butter producing qualities, where the as the chief dairy stock; because they combiialities in the same animal.

ty of the short-horns has been lost sight nerican breeders in their zeal to produce m, till, I must confess, they have deteriors his particular in our hands; still the milking t in the race, as every handler of them ver quently crops out in every family in spite spress it.

luction should not be neglected, but the sing qualities, and had the same attention beer qualities as to the beef productions, for the ntury, the short-horns would have been qualities as for their present beef

beef-producing districts of our country the ptation, no doubt, to disregard the milking of little consequence beyond that of raising many have given no thought or care to the and sufficed it to pass unnoticed, and consequence his respect.

attle, as of everything else, depends on their a poses intended. The breed that fills most requirements will be the most sought afte I comand the highest price.

chiefly for beef and milk. As a beef-propanimal that equals the world-renowned shorn they possess first-class beef qualities and first at the same time? I answer most assured be combined in this matchless breed. The every requsite to manufacture food into mile than any other breed, because she has land is capable of using them to this purposed then, when no longer wanted to raise and give milk, she is quickly fattened and the with the butcher.

een of many short-horn breeders, if we may to produce a fine beef animal alone, which p tinued, for by proper care the fine beef anir the excellent dairy cow may as easily be com the one quality alone.

Is the short-horn cow just what she might certainly think not. It is true that many o managed as to damage greatly their milking of money could be made out of them by high fancy and show purposes than for milkers.

That the milking qualities of the cow ms proper management and neglect, there can be

Let us turn now and examine something acter, as milkers by Mr. Youatt, who is the o ity that can be had. He says: "From the es we have any account of our breeds of cattle, the and York have been celebrated for their she pally, in the first instance, on account of their ordinary milkers. To recite their recorded for be to invite incredulity, but it may be assedence, that taken as a breed, they have never it equaled." Again, he says: "In every instatement weeks of calving, and, in several instance been dry since they first calved, and it is by for them to yield thirty to thirty-six quart twenty pounds of butter per week."

The point I wish to make here is, that as a matchless milk breed, anything that has be alone, for beef and beauty, may soon be restoring for both milk and beef.

As to the general excellence of the short-l tion of beef and milk, in those times, the follow same very high authority: "The number of purpose of supplying the metropolis (Londo with milk, is about 12,000." They are, with v the short-horn breed. * * * The univer to this breed by such a body of men, differin branches of the treatment of cattle, is perfectheir value, and that on three distinct points. tity of milk she returns. This, however, is a be the principal thing which enters into t metropolitan dairymen. * * * The pro dairy is also a dealer in cream, to a conside these people; is also a great manufacturer of have milk enough to answer every demand, exceedingly fluctuating; then it is necessary t

SHORT-HORN BREEDERS.

order that he may turn the overp s form of cream and butter.

nt of the short-horn cow in all the ther milk is not so poor as some practice in most of the dairies to becomes less than four quarts a breed while in the a dairyman's pog so often changed, is proof that ating quantity of milk for a certally fattened for the butcher as soon time or money employed in premishould not answer, and would

Fattening and milking qualities are animal, and they do so here. The testimony as to the excellence of ilk and beef, and shows that milk a England, and, if inherent in the ped in it again by properly breed ilk and butter.

History of Short-horns," we find v Barfeeth (the dam of Hulback's parts of milk a day, and make per week.

ne second volume of the "Americantly importations of short-horns, as y among them; they were almost era."

ndantly show that they come origattle, and if they do not now stan every particular, they have the kable them very soon, if given a chaproduction, as well as in beef.

their history, Mr. Allen, in his "H
"They (the short-horns) are the
y breed whatever, except the Dut
own. We have numerous well a
giving six, seven, eight and even
fourteen to eighteen, and some a
ls of butter per week. Our own
y years' experience, with hundre
releves, abundant evidence of thes
y of Short-Horn Cattle," he also
own that from the earliest perior
ere large milkers, and when cultiv

to dairy purposes, no animal of any breed excelled, and few, if any, equaled them. When milk has been the main object in their keeping, no cows have made larger yields, according to the consumption of food, than the short-horns. Even in our own time, we have frequent records of cows giving from twenty-four to thirty-six, and even forty quarts per day, and the yield of butter has been correspondingly large."

Numerous notes may be found attached to the pedigrees of cows, in the several volumes of the "American Herd Book," attesting these facts.

These statements are sufficient to prove that, if there is any want of milking qualities in the present short-horns, it is due entirely to the present breeding, for it is most certain that the ancient short-horns were good milkers, and combine both milk and beef in the same animal.

I find these facts standing out very full and prominent in these authors, and that the short horns were celebrated for their aptness to give great quantities of rich milk. Every one at all acquainted with the breed will call to mind more or less cases, similar in every respect, and which bears abundant testimony to the excellency of the dairy qualities inherent in their organization.

Professor Arnold, in his late work on "Dairying," bears testimony to the high inherent milking qualities of many of our present short-horns. He says: "It is doubtful whether there has ever been any better milk stock than the original short-horns, and they still have a most persistent tendency to transmit that quality to their descendants, and where a deep milking tendency has not been counteracted, or where it has been the least restrained, as in the Princess family, it has remained nearly in its original state and is transmitted with most remarkable certainty."

The same author speaks well of the quality of the milk. "The globules are of good size, cream rising readily. The percentage of cream liberal and of good quality. The milk is about equally well adapted to butter and cheese and marketing in cities."

With this evidence before us, the conclusion is inevitable that attention only is requisite on the part of the breeder to restore and perpetuate this quality in any desirable extent in all our present short-horns. It must be done by carefully selecting bulls out of cows known to possess great merit as milkers, by judicious feeding to develop the milk secretions, and stimulate the inherent milk qualities that have been by some breeders entirely disregarded. She may be made the very first-class dairy cow of this country. That this quality of abundant milking in the short-horns exists no breeder of them for a moment doubts; and if the breeder's atten-

"a reasonable doubt" in obtaining, with very few exceptions, extra heavy milkers. So if a breeder turns his attention, regardless of milk, to the grazing qualities of his short horns, he can gradually breed out the tendency of large milking, beyond a sufficiency to to raise a calf, and it is to be regretted that the tendency of too many of our breeders has been to this end.

The dairy interest is attracting wider attention to-day in America than ever before, and justly so, too, for it is the source of a large export trade, besides supplying a great market at home; and we should develop our short-horn cows to the growing demand for dairy stock and deep-milking breed, combining first-class beef and milk.

Generally speaking, the cow on the farm has never received her due proportion of credit for what she really can do in the success of the farm, nor has her blood and qualifications been so carefully studied as they should have been.

She produces a calf annually, which at two years old may be made to weigh 1,600 pounds. She produces 6,000 to 8,000 pounds of milk, out of which may be made 300 pounds of butter annually. A breed of cows that would combine these qualities is deserving of great credit in the success of the farm. Indiana is the natural home of the famous blue-grass, and will be the natural home of short-horn dairy cows not long in the future.

The small, ill-formed breeds, which some claim to be superior butter cows (not milch cows), do not produce a calf which for beef at four months old will command \$8, nor at two years old weigh over 600 or 700 pounds, and of very inferior quality for beef at that. The calves, in fact, are almost worthless, except the females to raise for cows, for the same purpose. Those who want the ill-formed cow for a small quantity of rich milk and "deacon" the calves at birth, the Jersey is just the cow. But the cow that is to supply our cities and our co-operative butter and cheese factories with milk, must come from the short-horns and their grades.

Here the amount of milk must not be the only important consideration. This, depending on one source of income, or playing upon one string, has long since been exploded as an unsafe policy. The farm stock must be so selected and combined that it will produce the most milk and beef, and they must be combined in one animal. Separate animals for separate purposes can not be tolerated on the farm.

The coming cow must be of as pure beef stock as possible, as well as of the best milk-producing breed. Here let me say distinctly,

the Jersey is a good butter cow for her inches, but she has not inches enough to hold her own in a long contest with those of greater weight and carcass; nor has she been subjected to the same rude tests on pinched food as most other breeds have.

In the January (1880) number of the National Live Stock Journal is a very forcible demonstration of this fact. Mr. I. Boies, of Illinois, has a herd of about one hundred cows of high grade short-horns that yielded 314½ pounds of butter last year. Mr. O. Bronson, of New York, has a herd of twenty natives that averaged 247 pounds and Mr. O. C. Blodgett, of New York, also has a herd of twenty-five Jerseys. Their average yield was 284½ pounds of butter per cow. Mind, now, the natives and the Jerseys both have greatly the advantage of the short-horn grades in numbers. The short-horn grades averaged eighty pounds of butter per cow more than the Jerseys and sixty-seven and a half more than the natives.

That the two qualities of beef and milk may be combined in the same animal of the short-horn breed scarcely needs further consideration. The character of the short-horns for beef I take to be sufficiently established. That the other may be had is sufficiently proven by the ancient short-horns, who possessed it in an eminent degree, and that it is possessed by many at the present time is true.

High grades in great numbers may be found that possess these two qualities in an eminent degree. This being true, it is certainly bad policy to breed a stock that possesses but one of these qualities.

Now we come to the second part of our subject, and I think it may most naturally be treated by transposing it, thus:

At what age should heifers be bred in order to develop the best milking qualities, and then how develop and maintained?

At what age heifers should be bred in order to develop the best cow will depend very materially on how she has been cared for from calfhood up.

The calf is the making of the cow, and if the young animal is neglected and stunted, the development of the future animal is seriously impaired. As a rule, females should not be coupled till verging on to maturity, but if the young heifers have been fed on good muscle-forming food, such as will give a rangy frame and a fine muscular development, with growth unstinted, I would think they might be coupled at from fifteen to eighteen months old, owing to their growth.

They should be kept growing thriftily, without fattening, for if made fat, this will give a tendency to fatten in their development into cows, instead of giving more milk. Heifers should be bred as early as their growth will permit, in order to bring into action the milking faculties, as they are more easily stimulated when young

than if neglected, and allowed to run till twenty-four or thirty months before breeding; they will make more docile cows and prove better milkers, and there will be quicker profits, also, in having her come to be a cow as young as possible.

These heifers are quiet flexible in the hands of the breeders, and may be developed into good young cows of great value, if properly cared for. The effort of the breeder should be to produce a vigorous growth, that the heifer may be well developed into a milker at two to two and a half years old. If mine fail to be bringing a calf at three years old, the butcher gets them sure.

DEVELOPMENT.

I am thoroughly satisfied from my experience with the shorthorns, that I can take one that is an ordinary milker, and, by feeding her a milk ration, and giving her the best care to increase her milk, can make out of her a fine milker.

The dairymen in my county (Putnam) say the cows they buy through the county, with their feeding and handling, increase the flow of milk from one-third to one-half. Now, add this to what our short-horns give on an average, as we treat them, and you see we have a heavy milker.

In the part of the county where I live, short-horns and their grades are all that are used for milk cows, and they are giving excellent satisfaction and would not be exchanged for any other known breed. I know one tenant farmer who is the owner of a pedigreed short-horn cow that furnishes milk and butter for his family and some to sell.

Milk contains all the elements of the living animal body in solution, and the cow is the machine that manufactures food into this fluid. She is a chemical laboratory to work up food into milk, and she must, therefore, have a complex variety out of which to elaborate this production, and as you intelligently and liberally mete out food to her, so will she pour out her milk for your benefit. It must be entirely reciprocal; you can not draw upon her bank without first making a deposit, and then she will pay you back with liberal interest. You must carry her slop at night, and in the morning get your pay in milk by drawing it. You never could, and I doubt if you ever will, get something for nothing, and just as you feed intelligently just as sure will you be liberally rewarded. While this is true of all cows, it is almost doubly true of short-horn cows.

There are but few cows so constituted that their milk may not be largely improved, both in quantity and quality, by careful attention to the wants of the cow; and it is my opinion that you may seek

quality of milk in food rather than in breed. [This is a point I should like to hear discussed by the convention.]

As far back as the history of the cow reaches the belief seems to be, both of the learned and unlearned, that the quality of milk may be improved and the flow of milk increased by special feeding to that end. Virgil, in his "Georgics," makes special mention of articles of food peculiarly adapted to cause a "flow of rich milk," while selections and breeding afterward perpetuate the variations that we now have in milk cows. Food must first develop the improvement in milk, then breeding and feeding must continue it.

No one would expect to produce a large flow of milk from straw feed, nor to make a fine quality of yellow butter by feeding cotton seed, no matter what might be the strain of blood in his cow. Milk is dependent for its flavor, quality and quantity upon the food consumed by the cow, but the food must be adapted to the wants of the animal to secure the best quality in either beef or milk. The effect of special feeding upon the quantity and quality of milk has been so often proven to a demonstration in large and small experiments that it is unnecessary to say more upon this point.

I can not close without giving a few figures in comparing the different breeds with the short-horns for beef, though I am sorry I can't lay my hands on later figures, but these illustrate the point as well:

We have 10,000,000 or 12,000,000 cows in the United States, and somewhere near 35,000,000 head of cattle, all told, according to the best guess I can set. The statistics for the fiscal year ending June 30, 1878, shows that we exported 80,040 head of cattle (it certainly is much more this year). About 40,000 head went to Cuba at \$17 per head, and 24,834 head to England at about \$97 per head. Here are the wild-grass fed Texans to Cuba, and the short-horns and their grades to England, the latter selling for 57-10 times the price of the former. This is a most remarkable contrast to occur in our different grades of stock in the same year. The weight of the short-horn grades was about twice that of the Texans, but the value nearly six times as much.

Now, suppose our cattle were all Texans, or of some small or ill-formed breed like unto them, what an immense difference there would be in the amount of money they would bring the grazier, besides only large and well-formed breeds can be exported to England and find a market; or suppose all the cattle of the United States were of the short-horn breed how much more money the 40,000 would bring to the United States at \$97 per head instead of \$17 per head.

Really, gentlemen, I feel like we could spare all other breeds a

few pints of milk and a pound of butter and then be a long ways ahead with their broad level backs, fine quarters and excellent grazing quality. These are worth a few pints of milk, at least.

DISCUSSION.

W. W. Thrasher. I indorse the paper heartily, and, with a few exceptions, have but little criticism to offer. That the short-horn breed of cattle are milkers, as stated, there needs no proof, and that they have lost some of that quality is admitted by all. There is some reason for this. The short-horn breed of cattle, when I can first remember, were notorious milkers, almost universally so. It is not so now, but as the paper states, "in spite of anything we can do, it will break out in families, and there will be good milkers, let us do what we will with them." I attribute this falling off in milking qualities, to one or two reasons. I think our present plan of fattening show animals at our fairs, has a tendency to depreciate their milking qualities. I have no doubt of that from my own experience. The fashion now is to feed the animal the year round. They carry it further. They want to keep these show animals breeding, but as soon as they drop the calf, they take it away and let some other cow suckle the calf, and push the cow on for show purposes. That is one reason why our short-horns are not as good milkers to-day as they were years ago. Another thing. Most men that show animals don't pretend to breed them until they are about two and a half years old. That is a mistake. Whenever a calf wants to take a bull, just let her take it. That is nature. Sometimes they will take the bull at a year old, sometimes a little less, owing to the manner in which they were kept. If they are full flesh, and in a growing condition, they will take the bull from nine to twelve months old. Such a course may decrease the size of the animal, but not much. Their milking qualities are better developed in that way than to keep them until they are two years old, before they are bred to the bull. I have a heifer at home, three years old, that has had three calves. It has curtailed her size a little, but she is a beauty, and a good milker. I have had men look at that young cow when she was poor and thin, with her first and second calf; they made fun of her. I didn't like that. She was such a milker that I couldn't keep her up, but as she develops age I can keep her in good condition. Now she is a model cow aside from her milking qualities. In the short-horns are combined the finest qualities for beef and milk purposes. Some claim that the butter is not of so fine a texture as from breeds from Durham stock. I know this, that cheese from the short-horn has taken the premium over all other breeds of cattle, and that their butter is a fine

quality and texture. I don't know that we ought to resort to anything else, when we combine all that cattle are grown for in the short-horn breed.

J. P. Forsyth. I object strongly to breeding calves—"whenever they come into the notion." I don't know that I ever raised a short horn calf that was not just as regular at eight or ten months as it ever was, and I think it would have ruined them to have bred them then; for to have done so would have had a tendency to injure the constitution and shorten life. My notion of breeding a female is to let her run until she is past a year old and then try to breed her along in June or July. I don't want a heifer to have a calf until the grass is up.

As regards the milk,—that is the only thing in my short-horn family that bores me, the quantity—the quality is good. My habit is to put my cows in a lot, turn the calves in to suck what they want and then milk what is left. Some of my cows are giving two gallons of milk over and above what the calves suck. I breed for merit all the time, and buy none of your gilt edged bulls, and never expect to. I would like to ask how these heifers that give such quantities of milk are kept up? I feed bran and corn, corn cut in the shuck; also clover and millet hay. I am not able to keep them up; they go down in spite of all that I can do.

W. W. Thrasher. There is no doubt but that milk can be increased in a cow, not only in quantity but in quality, by good feeding. A cow fed on blue grass will furnish better butter and It neutralizes the wild taste of grass in the butter. I more milk am satisfied from my own experience and from the experience of dairymen that there is nothing better for milk cows than what we call shipstuff. You may take oats, cut up and put in a good portion of mill feed, which being mixed wet answers for filling up and for the developing of milk. There is nothing better than clover hay for cattle during the winter. You may have a straw stack standing in a good pasture; I don't care how good the pasture is every once in a while you will see the cattle go to that straw stack and eat from it. Nature teaches them they need something of that kind. Dairymen say that bran is better than shipstuff for developing the milking qualities of an animal; I don't believe it. Shorts is perhaps a little too rich, but I would rather have that than bran. Shipstuff is the article we want to develop the milking qualities of a cow. I am sure we neglect too much this matter of summer feeding. We think the grass is good and that our stock don't need anything else. They do need something else, as the testimony in the case of the straw stack proves. If you give them a good mess of this mixed ship feed once a day, or once every two or three days

it satisfies them, increases the milk in quantity and improves its quality.

Albert Marlatt. My own experience is that calves, when properly kept, will be in heat from six months on, and for one I breed them at about ten or eleven months old for fear some scrubs may get in from the outside and cover them. I notice my heifers that are bred young, as a general thing make very fine milkers. I had one cow last winter that gave seven gallons of milk per day and a number of others that milked nearly as heavy. As for keeping them up I find it hard to do, but the better you feed them the better they do. I think the extra milk and butter you get fully compensates for good feeding.

Governor Williams. I have raised some shorn-horn cattle, and my purpose has been to raise fine calves for beef, and not particularly to sell as breeders and my aim has been to raise them with as little grain as possible. Gave them grass in summer time and also in winter. We can better afford to feed our cattle upon grass than. upon grain. An acre of blue grass is worth more than all the hay you get from an acre of timothy cut and cured. If that is true, where is the necessity of sowing timothy and then hiring men to feed it out in the winter. I consider blue grass better than corn, shorts or shipstuff. It is much less expensive and I have always found that young cattle thrive better with that kind of feed. I have no trouble with my milk cows or calves when I have grass for them. I haven't generally favored the breeding of heifers when young. Last year I did let the bull to a few heifers at thirteen months old, but I did it because I couldn't buy such cattle as I wanted to raise for beef. My purpose has been to let heifers run until two years old and then breed them. I have never seen any bad results from breeding young. As to what effect it would have upon the milking qualities I am not able to state.

S. F. Lockridge. I think we have come pretty generally to the conclusion that short-horn cattle, as a race, are the best general purpose cattle in the world, combining to the greatest extent beef, milk and butter producing qualities. We have other cattle that are extra in some of these particulars. The Jersey cattle are the best butter cattle on the face of the earth. The Ayreshire give the largest amount of milk, but not rich milk. The Herfords are the finest beef cattle, but not heavy milkers. The short-horn cattle combine all of these qualities. They will thrive any place upon the face of the earth. The cattle of Scotland do well there, but bring them here and they do no good. The short-horn cattle have been sent to Australia, and over the continent, to Texas and to Canada and they

do well. The general farmer wants a general purpose beast, and when he gets a good short-horn he gets that kind of an animal. That has been my experience.

James Marlatt. I am not inclined to believe that the milking qualities of the short-horn have degenerated as much as Mr. Robe seems to think or fear in his paper. I have been acquainted with short-horn cattle for a number of years. My father bought a cow and three heifers forty years ago. They were fine milkers; in fact, they were milkers to such an extent that some of them were a source of annoyance, because they would kick and it was hard to milk them. My experience has been, and is to-day, that a majority of short-horns have been fine milkers. I raise calves principally for beef. I am satisfied their milking qualities are under-rated by the people. I have one cow that has brought me three calves. I bred her three years ago. She has run out nearly all the time, has never been an extra milker, but raised good calves and has been fat enough to butcher every day since I owned her I am in favor of breeding heifers tolerably young. breed heifers at two years old, or a little after that. I had one this year that was high bred, but she went until she was over three years old before she had a calf. I bred her a time or two, but she didn't stand.

Thomas Nelson. I have found short-horns good milkers with one exception. I have only a small herd—I think eight families. They are all good milkers except one family, which is worth nothing for milking purposes.

As to breeding them—I don't like to breed them too young, My calves are well cared for, and will take the bull from six months on, if they had a chance. One heifer dropped a calf at thirteen months, but she didn't make a good cow.

Daniel Cox. It has been my experience that when you let heifers run too long they are not near as apt to get with calf as when younger. From twelve to eighteen months is the best time to breed.

Thomas Nelson. My brother had some nice heifers that were bred for two seasons to an old bull, but failed to get with calf. Didn't sell them to the butcher, but the summer they were four years old, he bred them to a young bull, and they are all having nice calves this year.

Daniel Cox. I would rather breed my cows so they would bring calves in May or June when the grass is up.

J. W. Robe. I prefer a cow should come in at her natural time, rather than not to breed her until she would calf upon grass. As to

SHORT-HORN BREEDERS.

feeding bran instead of shipstuff. Our dairyman have to buy roughness, we don't. We can make the coarse feed out thing else beside the bran. We can take the shipstuff and roughness, and get all the filling up the dairymen get o bran, with less roughness.

W. W. Thrasher. The best plan to pursue with heifers such a length of time without getting with calf, is to take bull and turn him in with them, and if there is any calf abit will come sure. My manner of mixing feed is to take of oats, cut fine and wet before putting the mill feed in part of the feed will stick to the straw, and it is all taken up would put a little handful of salt in every feed. A great means feed dry bran and shipstuff, but I don't think that is the It has been a question with me that I couldn't understater a sells as high as shipstuff. They say it is because dhaven't anything else to fill up with but bran.

James W. Marlatt. I feed a considerable amount of gra hard weather sets in. In feeding cows for milk and butte found good clover hay better than any other hay. I use sometimes, but I don't prize it highly. Barley straw is a go and they will eat oat straw. I often buy shipstuff and so mix it one-third bran and cut oats and then give hay. I! good success under that treatment. I feed a considerable of cut oats when I want milk. If I don't want much mi corn and hay and maybe a little sheaf oats. I believe if we feed we get a larger return for our trouble. I think the she are the best breed for our western country. I have seen and almost every family of cattle in the United States and I am the short-horns are the cattle for us. I want to know if present knows anything about an English cattle called the of England, and why they never come to the United State sell higher for beef than any other cattle in the English ms

- S. F. Lockridge. I think you have reference to the West I cattle, long-horned cattle. They are good in some cuts at the highest price in some respects.
- J. P. Forsyth. In regard to feeding bran dry. I have been my sheep twice a day, bringing them up to the barn lot eve I have some troughs in there in which I pour bran every n morning. This morning, before I started from home, I boys they might shear the sheep, and there is not a sheep it lot that is soiled with dung or grass. This I attribute to but feeding on dry bran.

Governor Williams. Is there any grass in that barn lot? Mr. Forsyth. No, sir; but plenty in the pasture.

W. W. Thrasher read the following essay:

THE QUALITIES AND CHARACTERISTICS THAT SHOULD GOVERN THE PRICE OF SHORT-HORNS.

Gentlemen—That very many have been misled in this matter to their financial ruin, I suppose, will not be doubted. We have only to look back a few years to see abundant proof of this. There is some cause for this. Cattle are only valuable for their milking and beef qualities. This is the chief reason, or should be, why the short-horn is more valuable than any other breed of cattle, being a more general purpose animal than any other known to me. But in the last ten years this quality has been overlooked, and men run wild on certain families and gilt-edged pedigrees. They seem to lose sight of individual merit. Fabulous prices were paid for gilt-edged pedigree; those that handled them failed and the masses of the people suffered. A good short-horn should be recognized for its individual merit, instead of fancy pedigree without merit.

First, then, in buying an animal we should not lose sight of its individual merits. The animal should stand on its own merit, without a long pedigree to back up a poor and ill-formed creature. When men get back to first principles and buy only those that possess merit in themselves, the mass farmers will be misled less than if fancy pedigrees are relied upon. Indeed, I here state, and think I can prove it, that if there were no pedigrees at all, the masses would be less imposed upon than they are now.

DISCUSSION.

Thomas Wilhoit. I differ with Mr. Thrasher in some respects. I want a good pedigree backed up to prove that I have the animal and then I want the animal with that pedigree. I know there are extremes upon both sides. They will talk about pedigree without regard to the animal. I don't want the pedigree without the animal with it.

J. W. Robe. I would like to have a pedigree with mine. I was at a sale last fall where there were some fine cows sold. To look at them, you would think they were poor scrubs. One of those cows sold for a high price, yet she looked like a very inferior animal. I asked the purchaser why he bought her, and he for her pedigree; that she had a very fine one. This was an instance of pedigree backing up the animal.

ws. I want an animal of sufficient excellence the his thoroughbreeding in his appearance. I wan hals of unusual merit before I take them into me of superior breeding and excellence will alway est price.

My experience is, that the better animal your butter pedigree, the more money there is in breedin buying a bull for myself, I would rather give twid dollars for one that I knew his pedigree for twitions back, rather than to buy one just on his approximation.

I want a good pedigree. You may take a half bree ual merit probably, and as fine in appearance a red, still I wouldn't like to risk the breeding qual act they will run back to the woods sometimes. ted with marked results. I want a thoroughbre I I want one of good individual merit at the san

iams. I differ somewhat with the gentlemen the ne. I think sometimes we have first rate men the n royal families. I am inclined to judge from the in animal more that from pedigree. The butche stock does not take pedigree into consideratio good fat steer, with meat all in the right place, goo ack, etc., I can sell him for as much money as M is, whether mine has a pedigree or not. We have much importance upon pedigree. My policy h g with the least labor possible. If I undertook t straw and oats, mix and feed, I couldn't sell n l of the year for enough to pay them, therefore, e best plan in Indiana is to sow all the blue gra o the ground. Plow but little, and let your catt . It is a good plan not only to wet your feed, ested, but to do it with boiling water. Boil you or whatever you throw into your feed. I have ulls, but never asked whether they were thoroug neither buy nor sell pedigrees.

I we all disregarded pedigrees in the matter of rai ould be but a short time until we would have a he country would soon be stocked with narro I believe people would be worse imposed upon th thing as pedigree.

I want the pedigree to be a good one, but first

want the animal to be good. It is necessary that we feed some rich food to our cattle a part of the year. I feed a little grain the latter half of the winter, almost every day. I hardly ever feed much after turning out upon grass, although I am satisfied it is some advantage to do so. One of the best milkers I ever saw had all the blue grass, timothy and clover she could eat. If the governor has raised fine stock without regard to pedigree and from cattle not highly bred he has succeeded better than any body else. I have studied this question much, and I have never found nor do I think any other man has, a fine set of steers but what could be traced back to a fine pedigree of cattle.

Gov. Williams. In case we should happen to neglect the pedigree of a bull and should raise a fine animal, it seems to me that ought to answer all purposes. We sometimes find among these pedigree animals some that are ill formed, with a horn you don't want—something wrong with the very best of them. If you see an animal with the best pedigree in the world that is not well formed, and another that is perfect in form but without any known pedigree, you would choose the latter in preference to the former, with his defects. Like begets like. I don't pretend to say you mustn't feed grain; I always feed grain but don't go to the trouble of cutting it up as nice as Mr. Thrasher does. Let your stock eat straw and get along the best they can. I know they nose a great deal. In winter when the grass is too short for the cows I let them have hay. I don't raise my cattle entirely upon grass, but wish I could.

W. W. Thrusher. Half of the farmers in this State haven't got sense enough to make a living upon a farm. They will break up all grass land and run it to corn. They don't know anything but raising corn and hogs. Suppose they let that plowing alone and put in grass which they can use in winter in the place of feeding grain. If stock have any pasture it is generally a little lot where the farmer has turned in his work horses and without grass sufficient to keep a goose. That is the practice of at least half the farmers in this State. The masses of our people that know nothing about pedigree are damaged in consequence of pedigrees. we educate them up to the point of understanding pedigree they had better be without any knowledge of it. I don't care if we never had a pedigree, if the animal fills the bill, he is what we want. A pedigree animal generally is better than those without any pedigree. I don't want an animal without he has got a good pedigree, but I want a good individual animal along with that pedigree. When I used to show cattle, perhaps as successfully as anybody, I didn't have any of these gilt-edged cattle. I never owned any, was never able

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to buy them and it was a good thing for me, for if I had I migh have had any home at this time. There are hundreds of me haven't got a home to-day, unless they smuggled it, by rea buying gilt-edged pedigree and no animal with it. The massi better rely upon their on own judgment as to the merit of an ar because, knowing nothing about pedigrees, they are dependent men who are sharpers in the business and get picked up. men are perhaps as honorable a set as any other profession some of them are liable to misrepresent to men who are not p The subject of pasturing can not be talked about too much. people of this country certainly plow as much again as they to. They work up their places to feed hogs, and hogs are an 1 tain business. It appears to me that farmers ought to pr mixed husbandry. It is certainly much easier for men and profitable to have more pasture than they have now got. The blue grass is, the better, and in Kentucky they buy it accord its age. I would rather buy every bit of grain for fe than to have scant pasture. You can not buy grass, but you can and wheat, and frequently cheaper than you can raise it. farmers have pasture in woods that they can not use for any purpose. That is not very good, but is better than nothing. may travel from this county east and you will find scarcely a that has got a blue grass field upon it. There is once and a a clover field. In Putnam and Hendricks counties they have blue grass, but south and north and east you will find they he blue grass.

- J. W. Robe. Mr. Thrasher says that old pasture is the beexpect it will be information to the convention to be informed old fields are the best.
- Mr. Thrasher. That is a thing that has never been explain me, but in Kentucky that theory prevails, and blue grass is ble in proportion to its age. Our blue grass pastures need a draining as much as our plowed fields do. Drain your wet and cattle will pick grass in the low places before they will the high land.
- J. P. Forsyth. I have noticed in yards where grass has been number of years, it would come up so thick that it wouldn't out. Old pasture is preferable because it comes up thick affords more grass. In a new pasture grass grows very hit not thick.
- J. W. Robe. I think the older pasture has a greater numb variety of grasses in it, and cattle are like human beings i matter of variety. In a new field you don't find more than 1

three varieties of grass. Cattle fed upon woods grass are not fit for New York market, but if fed upon blue grass they are ready for the eastern market without being corn fed.

Thos. Wilhoit. Blue grass enriches the ground. The old pasture upon my place is nothing but blue grass. I sow clover, timothy and blue grass together; clover and timothy in time give way to blue grass but the latter gives way to nothing.

Mr. Cooper. That is my experience. I sowed clover, timothy and blue grass together, and the longer it lays the more blue grass it gets. It gets thicker all the time and keeps matting off at the head until it becomes sort of bunchy.

Mr. Marlatt. But few farmers have grass enough—especially in the winter season. I generally aim to keep half the land I have in grass.

J. P. Forsyth. My notion about blue grass is to pasture it off close in the spring, then take your stock off and let it grow up for winter use. Pasture it close until after the heading season; then use your clover and other pasture and save the blue grass for winter. I think a twenty acre lot pastured off close down until the first of June will produce more grass than sixty acres that is not pastured through the spring.

Thos. Nelson. Clover, I find, will do for young cattle to graze upon, but for beef I never want it. I have noticed in pastures grazed for twenty years a sprinkle here and there of white clover.

W. W. Thrasher White clover will lay upon fat more than any grass that ever grew. You may talk as much as you please about blue grass, but white cover can not be excelled by any. White clover will grow with blue grass some seasons. In the same pasture it will grow largely one season, and the next season it may entirely disappear. If you want winter pasture, graze it down to a goose pasture, and then withdraw the stock and let it grow. After all that has been said about blue grass, there is a while in August and September that it fails a little and don't furnish a full feed. An extreme drought injures it perhaps more than any other grass. I don't know of anything better to supply its place than a field of clover and timothy. White clover will not grow upon wet land.

Adjourned to 8:30 o'clock A. M.

SECOND DAY.

MAY 26, 188

ation met pursuant to adjournment, Thos. Nels tem, presiding. The minutes of yesterday's sessed approved, after which, Thomas Wilhoit, of Mide following essay:

AGE SHOULD WE COMMENCE USING YOU BULLS?

DENT AND GENTLEMEN:—The animal should be re old, and his breeding faculties well matured, be. He should be allowed to serve the cow but one ti sot stand then, she will not at subsequent times. aged, a bull may be used without injury at one y an access to but few cows, let him serve them times of service should not be too close together. he will mature better and more vigorous calves.

DISCUSSION.

. A majority of men use bulls at a great deal your paper recommends. I heard of a breeder who brul when he had to make a pit to put the cow in so over her. I think a bull at the age of three or reger and more vigorous calves. If breeders, instea old bulls to the butcher, would exchange with h an arrangement would mutually profit them, better than for each farmer to sell his bull and h prices.

this old. It had been kept up well and I treated it real cows afterwards and bred them to Meredith's up there and left them for some time. I paid for t was to pay fifty dollars for every calf I got. I had und toward fall that they were not with calf. I reed them to the bull calf I had bought of Mere agly stood him to five cows and all of them got think he served either of them more than one t bull when he was about eleven months old, and I ig him ever since. I think Mr. Wilhoit is right in breed young bulls before they are two years old.

**tatt.* I have had good success in breeding young by at about a year old, but I never aim to breed then

many cows. My bulls never served half as many cows as some of my neighbors. I have known young bulls overbred from a year up that at four year old didn't get one-fifth of the cows they served with calf. I don't see why a short-horn bull should fail at five or six years of age, if properly managed. I bought a bull a few years ago a little past four years old. I kept him until he was nine years of age and I am satisfied he got fifty calves the last year I had him, and they were as good as any set of calves he ever got. I also know of a bull that did as good service at thirteen years of age as at three and four. We may breed our bulls young, but don't overbreed them. I don't believe there is any bull that need lose his usefulness under twelve or fifteen years. There are very few of our good cows that run down much under twelve years. I would as soon risk a cow for breeding at twelve years old as at six. I have had them breed from sixteen to twenty,

Charles Miller. A bull has the same propensity to breed young that a heifer has. It would not hurt a young bull to serve a cow occasionally, but don't use him too much. Calves will not be as strong and vigorous where the bull is bred too young. There is great danger of using young bulls too much.

Thomas W. W. Sunman. Why is it that bulls when four or five years old, are turned off to the butcher on account of not breeding? Almost every breeder of short-horns does it.

Thomas Wilhoit. I think it is in the way they are managed. A young bull is easier spoiled thon an older one. I can take a young bull and spoil him in three months, by letting him serve too frequently.

James Marlatt. I bought a bull some years ago for service. He was recommended as a sure breeder, and was in fine condition. took him home, fed him well, and he got no exercise except what he got in being led to and from water. I bred him to my own and my neighbors' cows, but without satisfactory results. I weighed him at the end of several weeks, and found he had gained one hundred and forty pounds. During the first three months he didn't get more than a quarter of the cows with calf that he attended. I then turned him out with the stock cattle and let him run the fields. The next spring and summer I bred him, and he was just as sure as the average bull. He had failed before from the fact that he didn't get exercise enough. He was kept up too much and possibly fed too high.

J. W. Robe. I have a bull that I have been breeding three years. He served his first cow at eleven months. He was of good growth, and I think that year covered twenty-six cows. He has got as fine

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. He has grown up to be a fine animal; he don't know what grass is. All the to water once a day, and yet he has nevel didn't get with calf the first heat. It e didn't do good service the first cover might profitably get up an exchang. I believe we can get equally as good ager ones. I had a kind of a theory and make or female calves, but this sprind, and I believe this matter of sex is and that man has nothing to do with it noticed regarding my bull that of the other heifers, and since that nearly the been heifer calves. I can not account

nman. Some of my neighbors tried a Josure. He was bred as high as five a hundred cows I expect there were two. It was in the spring of the year that a some cause.

I don't think there is any good argums used at an earlier age than two years are old will get more and as good calves s more sure then than at any other tithe best breeders will hardly buy a b y buy a bull that has been tried and s seding qualities. It is the reverse in t reason (unless you have too many) for or twelve years old, if he has been prop nt by some that the keeping of the ar h its breeding qualities. I think d oyal bulls—they never fail; they go to t them; they breed as long as they liv ared for much, but just let run. I am i good service, should not be overfed. qualities, not only in the bull but in ything about a bull's breeding qualities r that reason, breeders in Kentucky | ast year I had a bull so fat at three yes in with cows, he would stand around 1 advances, and then the result was unc that men can have breeding bulls and h

REPORT.

fat. A cow that is fat will breed a little better than a fat bull, but still it injures them and their milking qualities.

In the absence of Robert Mitchell, the subject assigned him for an essay, "Is it important to have experts as committeemen to pass on short-horns at our Fair?" was discussed.

DISCUSSION.

W. W. Thrasher. My experience in every department of society is that a man who knows nothing about a subject had better let it alone. Some years ago, at our State Fair, three or four cows were brought into the ring, and among them I had two. The judges put the ribbon upon a cow that the owner told them he didn't want that he was not entitled to it and for them to take it off. They didn't take it off, and afterward I saw one of the committee and asked him if he knew much about fat cattle. He said he didn't know whether he did or not, and I said that is what I thought. further told him that if a man was a judge of an article he knew it, and if he was not a judge he is no gentleman if he serves upon a committee. We mean by experts men that understand the business they are expected to pass upon. I am satisfied that our State Board of Agriculture would do well to send off for men of high reputation, such as would decide upon the merits of an animal, and know what they were doing. At Fort Wayne they have an excellent show every year; they correspond with men at a distance that can not have any possible interest in any way-men they know to be honorable and competent. Their expenses are paid, and generally such men will attend. Here, our people gather up whoever happen to be in sight at the time—perhaps they are qualified and perhaps they are not-oftener disqualified than otherwise. Some people are influenced by the premium they see upon a certain animal, supposing it to be the best animal upon the ground. Such are sought after by persons incapable of judging for themselves, and they are likely to be misled. We should have experts in all departments-cattle, hogs, sheep, etc.-and they should be obtained at almost any cost.

Daniel Cox. I think we ought to have experts in every department. Wool men to pass upon the best grades of wool; the same in regard to beef.

T. W. W. Sunman. I don't believe in selecting butchers as committeemen to pass on short-horns. A gentleman wrote me that the greatest injustice had been done him by a committee composed exclusively of butchers, in their decision regarding some stock on exhibition. On one occasion he showed for the best four-year old bull, and as the breed was not specified they let in a little narrow-

back Jersey, which beat his short-horn. He also showed for sweep-stakes and was beaten again.

Wm. Crim. As members of the State Board of Agriculture, it was delegated us to select committeemen to pass upon the merits of stock, award premiums, etc. The members aimed to select the best men they knew for judges, but as a great many of the men appointed failed to appear, we had to select men who happened to be on the ground at the time. In this way inexperienced men frequently serve as committeemen. This is hard to obviate, unless the short-horn breeders of the State select their own committeemen and the State Board appoint whoever they agree upon. It is an imposition upon exhibitors to have incompetent men pass upon their stock. In the matter of sheep, hogs and cattle, if the men representing these interests would agree upon committeemen, the State Board would confirm their recommendations, and in this way the men that go to the Fair with the best stock will have justice done them.

J. P. Forsyth. I would be little afraid to adopt the plan just suggested, and believe the system that has been followed for the last two years can not be improved upon. The plan outlined by Mr. Thrasher is tolerable fair, but it wouldn't do to carry it too far. You send to Kentucky and get your experts, and they won't give any thing a premium unless it runs in the Bates family; the same regarding admirers of the Jersey family. The Board should select men familiar with the department they are serving in, and when their time is out discharge and pay them off. Don't aim to run one man through on everything. I have served upon committees with Messrs. Mutz and Quick, and I know that in making our selections after an examination we very often voted for the same animal without a bit of trouble.

A gentleman from Illinois brought some hogs here to the Fair, and after selling out he came to me and said he had been solicited to act upon a short-horn committee for sweepstakes, admitting that he couldn't tell a point belonging to such stock, further than they look nice. He asked my advice about serving and I told him to ascertain who were the other judges, and that if they were competent he might serve; if not, for him to stand aside—that where there were two competent judges he could stand by and keep still, and the other two would decide without finding out that he was a fool. He thanked me, said the other two were excellent judges and accordingly accepted his appointment. Exhibitors dread the show at Lafayette, because they are in the habit there of putting only generals and colonels on committees and it is not worth while to exhibit there unless you are related to Gen. Grant or one of the

judges. They pay for the services of judges, but have no one but relatives to fill the places.

Thomas Wilhoit. No man is a good judge of an animal unless he has handled or bred them. We need men that are judges of an article to select judges to pass upon the same. Machinists should select judges on machinery, cattle men committees on cattle, sheep men committees on sheep, etc.

W. W. Thrusher. The breeder of short-horns feels himself much safer should the owner of a herd upon the ground act as a judge upon his exhibit, rather than for an incompetent man to do so. If there is any honor in such a man he is not going to put the ribbon where it does not belong, He knows men are watching him, and knows every step he takes; hence I would rather submit my case to a man that is showing in the ring, and ninety-nine times out of a hundred I would get better satisfaction than to take a man unacquainted with the business. Exhibitors can not pick out a committee that will be satisfactory to all. I have had them come to me and agree that I should serve upon a committee. I said no. You will not be satisfied and it will be doing the society an injury. said there were cattle there that I had sold and I might put the ribbon upon them or I might not, but if I did I would injure your society in passing upon my own animals. It won't do for this society to select committeemen, because there would be more or less jealously among exhibitors and I prefer letting the selection rest with the State Board where it belongs.

J. P. Forsyth. A man may not be dishonest, but whenever he tells me he can put aside self interest I don't think he understands himself.

Chas. Miller. It seems to me that since the State Board has been appointed by the society to select these committees, and are responsible for the work done, the selection should be left with them. I agree that the committeemen should be experts in their business. To sum up the whole thing, it seems to me, it would be best for the short-horn men and State Board to co-operate together, and, if the Board don't understand about short-horns and competent judges, give them all the information you can, and then let the Board make the selection.

Thomas Nelson. I was a member of the State Board a few years ago, and this question of the selection of committeemen that were experts, was always a troublesome one. On three different occasions, while I was a member, it fell to my lot to select committeemen on cattle, and I always selected men that were not exhibitors. and that had always been raised with cattle. If this Board should

select this committee, and should take them from Kentucky, it would be as Mr. Forsyth said, you couldn't bring an animal here that had a drop of "17" blood in him, and get a premium. Last year it was the unanimous opinion of the committee with which I served, that the bull we gave the premium to was rightly entitled to it. I wouldn't have bred to that bull, knowing his pedigree, nearly so soon as to some others that were there, and did'nt get the ribbons. I knew the premium bull had "17" blood in him. I wasn't supposed to know anything about his pedigree. It happened that I did. The way I have been educated and grown up to view animals, the premium bull had the preference over all. He was in the prime of age for showing.

J.P. Forsyth. When cows were showing last fall, there was a gentleman exhibiting with two or three other lots of fine cattle, and he had the impudence to call me aside while I was acting, and said, "do you know that lot of cows there has 17 blood in them." I said, no, sir; that that has nothing to do in this case. I am here to pass upon the merits of the animal.

In the absence of Col. C. B. Jackson, the subject assigned him, for an essay "at what age should we sell our steers to be the most profitable to the breeder," was discussed.

DISCUSSION.

Albert Marlatt. Previous to 1874, for ten years, I handled about a car load of steers a year. One lot I kept until part were three years old and past, and a couple four years old and past. One of the steers I paid \$108 for at two years old, kept him eighteen months, and sold him for \$170. There was one steer in that lot I bought at two years past for \$76, and sold him among a lot that averaged me \$165 and some few cents. They were three years old past, except two that were four years old. The two four year olds, the last two years, gained respectively one hundred and fifty and three hundred pounds, and the two year old gained six hundred during the last year. I bought a lot of yearling steers; engaged them in the winter, and received them in June. I took them at six cents a pound, and they cost me \$65 apiece. I kept them out that summer, wintered them, and late the next fall sold them at about \$70 a head. While I was buying these, I passed a man with a nice calf, and asked him what he would take for it at six months old. He said so much a pound, and I took it at \$42.50. I kept him eighteen months, and sold him for \$63. More recently I fattened a car load of steers, paying for some of them \$50 a head at yearlings, and for others a little more. I have paid as high as \$80 and \$90 for two year olds to feed. I generally sell about the middle of June, after they were three years old. They brought me from \$125 to \$140 apiece.

W. W. Thrasher. I am satisfied from experience, and from what I learn from others, that to sell steers young is the most profitable. You can get a steer calf up to seven hundred pounds without missing what he eats, but the next ten hundred pounds you put upon him costs you some money. It is just so with hogs. You can get... a pig up to a hundred pounds and hardly know it, but from that on he goes into the crib pretty deep. The growth of cattle up to ten. or twelve hundred pounds is so rapid and cheap that no man canafford to keep them profitably after that time. The man who pays \$60 per head for steers, I don't care how long he keeps them, hewill never make as much money on them as the man did of whom he bought. A young animal, one and a half years, makes better beef than when six or seven years old. We must have our cattle ready for sale when ever we get a good offer for them, if they are only a year old. If we have cattle that we can mature, and we should have them, the demand is such that we can not afford to keep them several years.

J. P. Forsyth. I used to keep my stock until they matured, but in this fast day and age the fashion has changed, and I sell my hogs twice a year. I try to keep them until they get six months old. We can make the first thousand pounds of a steer with one-half the feed we can the next five hundred, and with less trouble. To keep a steer until he is three years old, I never was able to get any profit out of him. Hogs are profitable if sold at five or six months old, but not so if kept eighteen months—besides they are more liable to disease if kept long.

Thomas Wilhoit. Take a yearling steer, at fifteen months it ought to weigh a thousand pounds. You sell him at that figure, then you have to pay a big price for yearlings, and good yearling steers are not easily picked up over this country. I can take a yearling steer and put four or five hundred a year upon him, and then I am going to add something to the price per pound at the same time. It will pay me to feed that steer until he is three years old, and then he will prove a profitable investment.

Daniel Cox. I want to see my steers in the fall after they are two years old. It is evident to an observing man that there is an advance in price at that age. I will sell mine at two and a half years old and let others feed them for the English market. The purchaser may get more money but he has the work to do. I want to sell my hogs when they weigh from one hundred and fifty to two hundred pounds.

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James Marlatt. I am in favor of keeping steers until three years old, or not to exceed three and a half. We n steers, and a man can raise them cheaper than he can buy ones. We can afford to feed our steers untill they are a three years old, and by that time, if they are well tree ought to be ready to ship to England.

The following resolution, offered by T. W. W. Sun adopted:

"That in the judgment of this Association, the best til steers to be profitable to the breeder is at two and a half y

James Mariatt. For some years I have sold my steers at half years of age, but if I had been able to treat and give personal attention I would have made money by keeping or eight months longer.

Thomas Nelson. I will take Mr. Cox's steers at two at years and keep them one more year. I take it that your keep better by feeding matured cattle rather than young crit. I would rather Mr. Cox would raise the bone and I w the bone and put flesh upon it.

Thomas Withoit. I will buy the steers he proposes to a fall. That is the cheapest time they can be bought.

Thomas Nelson. I prefer to buy steers in September to a month in the year. Then I have the fall to use my own feeding them.

Daniel Cox. I would prefer to sell the last of October. I my steers at two and a half years and let others feed them year.

The association discussed the subject: "Does color have to do with short-horns as beef animals? If so, why?"

W. W. Thrusher. This color question is of great impocattle breeders, and perhaps it is less understood among cathan any one merit of the short-horn race. That color a thing to do with the beef qualities of an animal is not qamong experts. There is no other cattle that, as a breed good beef as do the short-horns and their immediate des There is some reason for this. We sometimes hear a marthe handling qualities of an animal. Very few men unwhat that means. What we mean by handling qualities When you put your hand upon an animal he should feel a pillow to be a first-class animal; otherwise he is not first beef purposes. An animal that is soft and mellow to the tbe suicy sweet and tender, the very article we desire to ha the animal that is hard to the touch is not fit for v men to eat. It is only fit to put strychnine upon and killing dogs. In the soft handling animal the lean a evenly distributed, while in the hard handling it is no Soft handlers are universally good feeders and milanimals this soft handling quality does not predom means. There are few red animals that are number I have seen such among red animals, but not so frequen white or roans. There are more white animals the handlers than of any other color. The roan comes red is the last possessing the fine qualities that make t animal, such as is sought for by the European marke blind an expert and put him among a lot of steers and out the good ones every time, simply by the hand These good handlers are always yellow skinned. Any the nose or horns is objectionable.

S. F. Lockridge. I have often tried to understand that exists in this country against light-colored anin not exist in England, the original home of the short any great extent in the colonies; but here in the Uni find that prejudice, more especially in the western 8 great difficulty in selling roan bull calves. I don't c the quality of a white animal is, if there be a red or quality, the latter will be chosen first. I have asked that is so, but they can not tell Last fall I sold to an who slaughters a thousand a week for shipment to I asked him, as a practical butcher, if he could see any regard to color, whether a red animal was any better or white one. He said he paid no attention to that s there was any difference, it was in favor of the roan. best handlers. If you examine the early herd book, that all the celebrated animals were either roan or father of short-horns was a red and white animal, and scription, white predominated. Where you find a c mal, you are almost sure to find an animal with wiry that case, you find a hard handling animal. I have he that white animals won't stand cold climate. I heard answered by a gentleman, at a convention, by inqu why was it the almighty put all the white anima north?" They stand the winter just as well as any othof a thoroughbred white animal is thick and yellow. a white scrub is thin and blue: black nose.

Albert Marlatt. I have fed red, white and roan stee

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lect that one of the best steers I had was a white short-ho yellow skin. I have got a red bull in my herd of which the few such in this country. He is a mahogany red, and about as any of the white or roan ones. I have a number of red also some roan bull calves and they are good handlers. Morience is that fine feeding has a good deal to do with the cobserved in different colored stock. I never feed oil cake never seen any. I feed nothing but cut oats, corn, bran, she such as that. I feed nothing to make the hair extra soft, a cattle feel very nice to the touch.

Thomas Nelson. I find no difference at all in color, provi animal has the shape and right kind of hair. I admit t lighter colors have preference over the dark ones. A dark imal very rarely has this fine, mossy hair that distinguishes handler. Take a calf that has a smooth, slick hair which la to its bcd/ and you will very rarely have a fine fed animal that calf. I am speaking of the ungroomed animal. It is the l form of an animal that is the surest index at last of good q These black horned short-horns are from Kentucky. I ha that dropped me a black nosed calf. The calf is a good feed fine form, mossy hair and dark roan in color. I don't thi feed has any effect upon the quality of an animal further puts him in good condition.

Mr. Lockridge offered the following, which was adopted:

Resolved, That the following resolution, passed by the k vention of the American Association of Breeders of Short-h Lexington, Kentucky, embodies the views of this convention

Resolved, That color in short-horns is simply a matter of fancy and fashion, not affecting the quality of the meat, proof milk, or anything relating to the intrinsic value of the be that public taste in prefering red as a color to the exclusion colors, is injurious to the short-horn interest."

REPORTS AND ELECTION OF OFFICERS.

The report of the Secretary was submitted as follows:

Adopted.

The report of the Treasurer, W. W. Thrasher, was as follows:

Cash on hand May 25, 1880	\$54	50
Received from members at this meeting	3	00
Total	\$ 57	<u>50</u>

Cash on hand May 26, 1880...... \$42 80

Report received and adopted.

An election of officers was had, with the following result: President, Thomas Nelson, Bloomingdale; Vice President, John W. Robe, Greencastle; Secretary, T. W. W. Sunman, Spades; Treasurer, W. W. Thrasher, Groves. Directors—J. P. Forsyth, Franklin; Thomas Wilhoit, Middleton; James Marlatt, Milton.

PROGRAMME FOR 1881.

The following programme for the next meeting of the association was presented and approved:

Essay—How were the short-horns developed to their present quality? W. W. Thrasher, Groves.

Essay—How can we tell an animal will make good, tender beef? H. C. Meredith, Cambridge.

Essay—What has color to do with the quality of beef, if anything? S. F. Lockridge, Greencastle.

Essay—Has there been any improvement on the short-horn within the past twenty-five years? J. W. Robe, Greencastle.

Essay—What varieties of food produce the most milk in the short-horn breed? James Marlatt, Milton.

Essay—What are the best grasses for the production of beef in Indiana? Robert Mitchel, Princeton.

RESOLUTIONS.

A resolution offered by W. W. Thrasher, changing the name of this association to "Cattle Breeders' Association," was, after discussion, laid upon the table for one year.

A resolution prevailed instructing the Secretary to procure reduced rates for members of this association on railroads centering at this point.

The following, offered by T. W. W. Sunman, was adopted:

SHORT-HORN BREEDERS.

- the course of events, we learn with regret mer associate, Jacob Walker; therefore,
- t in his death this association has lost a vaociety a good citizen. That we deeply sympof the deceased in their loss, and that the Secfurnish them a copy of this resolution.

prevailed tendering the thanks of the associated, Secretary of the State Board of Agricultuaded during the present meeting; after which are die.

SWINE BREEDERS.

FIFTH ANNUAL MEETING.

JANUARY 5, 188

The Indiana Swine Breeders' Association met at the Court rooms, Indianapolis (the rooms of the State Board ture being occupied), with Vice President T. W. W. Sur chair. The minutes of the preceding meeting was reproved.

The following address from President A. S. Gilmore the Secretary:

PRESIDENT'S ADDRESS.

Gentlemen of the Indiana Swine Breeders' Association:

It becomes my duty—having been made so by custon decessor in office—to address you upon the interests ciation. Experience, as well as observation, has demor fact that the formation and object of this association crowned with the best of results, and by our annual cin this department of husbandry, has not only been proas an organization, but its good effects have reached ou not only our own State, but those adjoining, as the things here discussed have found their way into a maj State papers.

It is a self-evident proposition that no department of is so profitable as that of swine raising, as capital car much more readily and quickly than where it is invest as the cost of the latter is at least three times that of th

The leading features of swine raising have been ver same as during the past two years; prices have no changed, though there has been an upward tendency, a age of the past year will be a fair basis for that of 1881

The number of hogs packed will not vary much from the packed during the previous year. From data take

SWINE BREEDERS.

Cincinnati *Price Current* of December 16, I find from mentioned therein that a total of 3,340,000 have against 3,080,000 a year ago. And these places recent. of all last winter's packing in the West.

Hence, the conclusion, that we have not suffere fever so largely as in previous years, and while in feel that hog cholera is a great evil, and some may closs, is it not really a blessing in disguise? for if we land slaughter "among the "innocents," the prices certainly not pay for the time, labor and feed consur

But, seriously, do we not raise too many hogs?

Our exports have not been so large as in 1879. has not been such as to effect the prices, and the fa a standing army as is employed in Europe—virtually ful work—they must be kept at the expense of otl we can safely rely upon a large consumption of ou that source.

As to the matter of food for hogs, red clover for st is superior to anything else, and observation has a acre of clover is worth more than three acres of wher as two acres of corn and oats.

Artichokes for winter feeding, are a good sub clover in summer, and hogs seem to do exceedingly fed in winter, as much so as when fed corn, especia

As to the diseases, prevention of the same, breedi leave these matters to be discussed under the gener Address by Wm. A. Macy, followed by discussion.

Mr. S. M. Sheppard, of Indianapolis, favored the a a talk on "the value of pedigrees for swine." He practice of keeping a record is of a very remote originapplied to the horse, but as the advantages of a recorduly realized it was used for other domestic animals the record system has been extended to the 'featherest memory is treacherous; hence it is impossible for member the characteristics of the different animals used as breeders, and unless a record of the animal cestors, are kept for reference, there will very likely takes made in breeding that will take years to corand farmers should devote more time to keeping a animals and different business transactions, and less t labor."

After some discussion the association adjourned t

AGRICULTURAL ROOMS, JAN

Association called to order, with President A. S. Gil chair.

On a motion of Mr. Jones a committee, consisting of Mr. Pegg and Mr. Macy, was appointed to confer wi committee of the Wool Growers' Association, also of the for the purpose of arranging time of meeting for t associations, so as not to conflict with each other.

The Treasurer, James Mustard, not being present his deferred to next meeting.

On motion the association proceeded to the election of the ensuing year. The present code of officers were follows: President, A. S. Gilmore, Greensburg; Vice I W. W. Sunman, Spades; Treasurer, James Mustard, Br Secretary, W. M. Wiley, New Augusta; Executive Comson Pegg, Samuel Dragoo and T. M. Reveal.

The following resolutions was offered by Mr. Macy:

WHEREAS, The Swine Breeders of the State of Indian edge their high appreciation and valuable services dur State Fair, of Demsey Seybold,

Resolved, That we, the Breeders, return our thanks vices and kindness rendered during said Fair.

On motion the resolution was unanimously adopted.

On motion the treasurer was ordered to pay the expe lishing programme and advertising the meeting.

The following was offered by Mr. Macy:

Resolved, That those who are appointed for public executive committee at any regular meeting shall be membership in the association for the coming year. C

The committee appointed to arrange the time for me association so as not to conflict with the meetings of ot tions, report that the annual meetings of the associati held on the first Tuesday after the first Monday in Januyear. The report was adopted.

The subject of "The most profitable mode of handlin market," was presented and discussed by several members as follows:

Mr. Jones said the best mode is in keeping your host market at any time, and then sell them when there is market.

Mr Reveal agreed with what had been said; the fire pounds cost less to produce than the second, and the less than the third. The last pound of flesh put on variably cost the most.

Mr. Macy. There is quite a difference in raising swine for market and for breeding. If hogs are raised for pork exclusively, they should be pushed as rapidly as possible.

Mr. Dragoo. If pigs have the run of a good grass lot there will be no danger of over-feeding. The most profitable age to put hogs into market is at the earliest age they can be made marketable.

Mr. Craig. I have been feeding hogs for several years, and give my spring pigs plenty of grass and a variety of food through the summer, and fat them on corn in the fall.

Mr. Edwards. I think the most profit is in putting hogs on the market the first year of their life. I think it pays to give hogs swill once a day, and never give more feed than they will eat up clean. We can make cheaper pork by feeding while on grass rather than in cold weather.

Mr. Pegg. I turn my hogs intended for market on clover when in bloom, and let them run about two months and then fatten on corn.

On motion the association adjourned.

W. M. WILEY, Secretary.

STATE WOOL GROWERS' ASSOCIATION.

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PROCEEDINGS OF MAY MEETING, 1880.

ROOMS OF STATE BOARD OF AGRICULTURE, INDIANAPOLIS, WEDNESDAY, MAY 26, 1880.

The association met in semi-annual session, and was called to order by the president, Hon. Fielding Beeler, of Marion county. The secretary being absent, I. J. Farquahar, of Trenton, was appointed secretary pro tem.

The president submitted the following address:

PRESIDENT'S ADDRESS.

Gentlemen of the Indiana Wool Growers' Association:

It affords me much pleasure to meet you on this occasion. I feel assured that our coming together will be not only pleasant to us who are gathered here and profitable to ourselves and other wool growers, but to the people of the State, for we may properly liken the State to a family or community having a common interest and working together for the general good, and whether we will it or not, individual prosperity or adversity affects the interests of all.

We will be profited not by new and fine spun theories that may be advanced, or lengthy dissertations clothed in the garb of rounding periods or well rounded sentences, but by plain statements of practical men, of their every-day experience with their flocks, and benefited not only by their reports of their well deserved and earned success, but also from their failures. The skillful navigator keeps his eye not alone on the vessel that has preceded him and safely entered the harbor, but carefully scans all objects before and around him and carefully shuns the creaking mast and shattered hulk, for there he knows are the treacherous sands and rugged rock.

We will be profited, though we learn nothing that is new to us, in leaving, though but for a day, the cares of farm and flock, and

mingle in social converse. Without intending to disparage other callings or professions, I will say that the shepherd's calling is not only a useful but an honorable one. From the days of the patriarchs, through the dark and dreary ages of barbarism and semi-civilization to the brighter era of Christian civilization and enlightenment it has been so regarded.

The often maligned and belittled sheep, the emblem of purity and innocence, has been the source of supply of both food and raiment, and must continue so until science shall discover some hidden source of caloric to give warmth, or chemistry some combination to supply the health and strength-giving properties of mutton chops and roast lamb.

It has been said that he who causes two blades of grass to grow where only one grew before, is a benefactor of his country. If this be true, then he or they who succeed in producing two pounds of wool, or mutton, where but one was produced before, and with even a less, or at least no greater, amount of feed than was previously required to produce the one pound, should be awarded the highest of honors. That this is being done to-day, I believe that every observing sheep raiser, who is old enough to remember the style and quality of the sheep generally found in our State twenty years ago, and will compare them and their products with the sheep to be found on the farms of our careful and enterprising breeders of to-day, will bear witness.

I regret that my time, for the last few days, has been too much occupied to allow me to enter into any statistical examination or elaboration of this subject; but let a brief extract from a summary of the censuses of 1860 and 1870 suffice, and I hope it may be the means of calling the attention of others more capable than myself to fully elucidate this important subject.

According to the census of 1860, there was in the United States 22,471,275 sheep, producing 60,643,387 pounds of wool, being an average of 2 68-100 pounds per head.

The census for 1870, shows 28,477,954 sheep, 100,102,378 pounds of wool. Average per head, 3 52-100 pounds.

For the same years Indiana is credited in 1860 with 991,175 sheep, and 2,552,318 pounds of wool. Average per sheep, 2 57-100 pounds. In 1870, with 1,612,680 sheep, and 5,029,023 pounds of wool. Average per sheep, 3 12-100 pounds.

With such yields as here reported it is no wonder that the producers of such sheep should conclude that sheep-raising does not pay and abandon the business in disgust, or that the intelligent seeker for information on the subject should be deterred from em-

barking in the business. I believe there has never been any statistics taken or published of the weight of sheep, at least none in our country; but I have no doubt but that in the past, at least, they would have shown results equally insignificant as that of the production of wool. But how stands the matter to-day. Though the improvement in the last decade has been small, indeed, to what it should be, nor what we believe and hope it will be in the next, and I believe all of you, will be very much surprised if the census to be taken in the next few days does not show an average of at least five pounds. This is small, indeed, to what it should be, but would show at least a gratifying progress.

Mr. T. W. W. Sunman, of Ripley county, read a paper on "The establishment of a wool house for the disposition of the surplus wool."

The following topics were laid before the association, and discussed by Messrs. Darnell, Robe, McDaniels, Robertson, Dungan and Thrasher:

- 1. What is the most successful method of managing our flocks?
- 2. What cross is best adapted to make the most wool and the most mutton combined, and how to make it?

Mr. W. W. Thrasher, of Fayette county, read a paper on the question, "Are the ravages of dogs a sufficient reason for not raising sheep?" Said paper was as follows:

SHALL WE ABANDON RAISING SHEEP ON THE ACCOUNT OF THE DEP-

Mr. President, and Gentlemen of this Wool Growers' Association:

To me has been committed the above subject. I say, no, to the question. If sheep breeding is profitable, as I think it is, keep on, do not stop because of the worthless curs on most of farms now in our State. You will find sheep, this mighty host, will demand protection, and will have it from sheeping killing dogs. Get the best pay you can for those killed, and go right on in the business. Give dogs strychnine, give them shot-gun, give them everything we can to exterminate them as much as possible. The man that keeps two or three worthless dogs, is of but little account himself; you will find them almost starved, ready for killing sheep. The owner's children starved, and neglected in the training for useful citizens-

Farmers sometimes make a failure in a wheat crop, or corn crop, or in hog crop. Do they quit the business on that account? Not quite, but still go ahead, and try again. We must expect to meet with losses all round, but if we wish to succeed in business, stay with it, and prevent losses as much as we can. But if they come,

meet them firmly, and try again. As we desire criticism on these papers, we close, and desire to hear from others. Thank you, gentlemen, for your patient attention.

The essay was discussed at some length by Messrs. J. P. Forsyth, S. W. Dungan, Clark and His Excellency, Gov. James D. Williams. Mr. J. W. Robe offered for adoption the following resolution:

Resolved, That it is the sense of this convention that the Legislature pass a law to consolidate the township dog fund into a county fund, and it be held for that purpose only.

GOV. WILLIAMS.
J. W. ROBE.
W. W. THRASHER.

On motion, the resolution was referred to a special committee of three, appointed by the chair, with instructions to submit their report thereon at an early hour to-morrow. The committee consisted of Messrs. J. W. Robe, W. W. Thrasher and James D. Williams.

Mr. Dungan proposed for discussion the following query: "Had we better sell our wool at the present depressed prices, or hold it?" The discussion was opened by Mr. Dungan, who was followed by Messrs. Howland, Thrasher, McDaniels, Quick and Darnell.

Mr. John L. Thompson, of Arcana, read an essay entitled: "Experience and observation with all breeds of sheep."

After the reading of Mr. Thompson's essay, the following discussion took place:

S. W. Dungan. While the essay is an excellent one, it appears to me that there is a contradiction—at least an apparent contradiction. I take exceptions to what the gentleman says in his essay upon the point of coupling large males with small females, or a small female and a large male. [Mr. Thompson here remarked that the word used in the essay was "good-sized."] It does occur to me that the course he recommends is not right. I think we should always couple small males with large females. You may take it with other animals—horses, hogs and cattle, and you will find it so all the way through. I do not believe there is hardly a breeder here that will not agree with me.

Mr. Thompson. All nature is against Mr. Dungan's proposition. Look around you and what do you find in nature as to the relative size of males and females? The male is almost invariably the larger. It is even so in the human family. There may be exceptions, but that is the rule. The gentleman's view of this matter is the old view, that is now exploded and ignored among the best breeders of the country.

Mr. Dungan I refer the gentleman to Stewart on Sheep Hus-

bandry, as my authority on the point in question; an Live Stock Journal, in which the same idea is advocate work is one of the best authorities on the subject bandry extant.

Mr. Farquhar. I have been crossing sheep now twenty years, and I invariably breed from the small year I did the opposite and lost lambs from some largest ewes in the flock. My theory used to be to be smaller male and the larger female, but my experienc stated.

Mr. Robe. We breed our small-sized mares to thes Norman horses. This is one instance in which we gethe gentleman's theory, if I understood him right. I him to say he would prefer to couple the Merino ewe wold buck; am I correct in that?

The President. I so understand.

Mr. Thompson. That is correct. Take a Cotswold I shear, say fifteen or sixteen pounds, and couple him mon Merino ewe that shears eight pounds. Now, sixte make twenty-four. Divide that by two and you will pounds, with proper care, from the first cross. I havinght along for years, and so can any other man with If my Merino ewe weighs eighty pounds and my Cotswhundred and twenty pounds, that makes three hundre the two sheep. Divide that equally, and you have a ing one hundred and fifty pounds—a good big sheep, will bring the very highest price for mutton. That is output

Mr. Dungan. Why would not the results be better if son would take a Cotswold ewe that would furnish t pounds of wool, and a Merino ram—one of our finest bred Merino rams—that would produce from fifteen t pounds? That would produce more wool than he ge to his own figuring.

Mr. Thompson. I am talking about what is best for t general. Your Cotswold ram may cost you \$100. I that costs only \$25. The common farmer can not engathat kind of sheep. There is a little more money it than most of us have to spare.

Mr. Houland. I wish to ask Mr. Thompson what he sider the best cross, or the best buck, rather, to run between a long-wool ewe and Shropshire?

Mr. Thompson. My experience in making that kin has been that the Shropshire in the beginning is a co

fiber. If you cross it with a Cotswold ewe your fibers are a little coarser. To cross that with the Shropshire it is a question whether you will not get a coarser kind of wool than our manufacturers want. I think we would have to mix in one-eighth to one-fourth of the Merino. A little of the Merino tells wonderfully in the compactness and, hence, in the shearing qualities of the wool.

Mr. Beeler. I ask Mr. Thompson if his fleece is uniform in quality in cross breeds?

Mr. Thompson. As I breed up I am getting my fleece more uniform and even in quality, and keeping it. That is a matter that will depend a great deal upon the purity of your ram and the uniformity of your ewes. I think out of the fifty ewes I spoke of I can select forty that are so much alike that you can not tell one from another. They had been bred for a long time in one channel. But if you buy your ewes hap-hazard, here and yonder, all over the country, your products will not be uniform. I think a farmer had better go to work and get his ewes uniform, and then he will know what to look for.

Mr. Howland. Would you cross the Southdown and Merino? I do not recollect what was stated on that point.

Mr. Thompson. I did not say anything on that subject in the essay; because I do not know anything about it.

Mr. McDonald. I have made the cross of the Merino and Southdown. It helps the Merino by bettering the shape of the animal over the rump. It thickens the wool, and sometimes to such an extent that you can hardly pass the shears into it. It looks a little more like a Southdown than it does like a Merino. The richest blood is in the Merino. The Merino will show one-sixteenth or one-eighth better than any other breed. I have almost entirely discarded Southdowns. I would like to ask Mr. Thompson whether he would use thoroughbred rams all the time, or whether he would also use a grade. [Mr. Thompson, from personal reasons, preferred that some other member should answer the question.]

Mr. Howland. Things have transpired yesterday and to-day that are to me at least gratifying. I am always after the true facts in every case. Occasionally, I have attended these meetings, but, then, instead of an earnest search after the facts, there were champions of Southdowns, champions of the Cotswold, champions of the Shropshire; not a man of them willing to admit that his favorite had any faults at all. I knew very well that they had. I found that I could not learn anything here. Each man appeared to be prejudiced in favor of his own flock that he was raising. But this time I am finding out what I want to know. If any particular breed has a fault or a failure in any particular direction, I want to know

I have believed all along that this long-wooled sheep is a good thing for us, if we keep a few of them together. I believe I have about come to this conclusion, however, that I should prefer the long-wool mixed with either a Shropshire or Southdown, as a mutton and wool sheep. I do not much like the Merino, but I may have to come to that. What we want in this country is a sheep that we can raise without having forty nurses for one little sheep. We want to raise sheep for the butcher. What we want to get at is, not what Mr. Dungan or Mr. Darnell can sell to their neighbors for breeding purposes, but what is best for the people to have to make wool and to make mutton for the world out of. We want a sheep that will produce meat to sell to the butcher; meat that any man can sell. Mr. Dungan alluded to some of the authorities. I tell you there is no authority in this case but the sheep itself. Forty years ago men had a great many hobbies, and rode them hard; they had a great many theories on all subjects; but now things have changed; circumstances are different to-day; we have more light on the subject. My opinion is, that this wool growing, sheep raising interest, like the cattle interest, is one that we can not engage in too extensively. And, in view of that fact, it is immaterial whether I or you spend a week or a month here every year, investigating this subject, and trying to find out what is best for us and our neighbors. You could not get anything like the amount of valuable information out of the Short-Horn Cattle Breeders' Convention here on yesterday, that you are able to get here, for the reason that that convention was all short-horn and nothing else.

Mr. Dungan. I am very much surprised to hear Mr. Howland talk about any such thing as forty nurses being necessary for each sheep of a certain kind, and to have him express the idea that that kind of sheep are so immensely tender that they can not get along. I have been handling Cotswold sheep for many years. I have found it necessary to put a large flock of them together. I have from thirty to fifty in a flock. As I said on yesterday, if a man has one hundred and sixty acres of land at his command, he can put them into different fields if he thinks proper to do so; but I do not take such extra pains with my sheep. I do not get up in the dead silent hours of the night to see whether one of my ewes is lambing. My lambs get up and go as soon as they come. I do not go to any more trouble with Cotswold sheep to-day, than I took fifteen years ago, when I raised graded Southdowns and other graded stock. I do not house my sheep. If you will take good care of them, I can. guarantee that you need have no fear of their becoming diseased so readily. I have lost some sheep, as a matter of course — always

STATE WOOL GROWER'S ASSOCIAT

expect that, with any breed. Now, I wish you to am not in favor, exclusively, of one breed, and not to encourage every man in breeding every kind glad to know that Mr. Thompson is experimentin he is with different breeds. It is necessary for a doing, as well as he, in order that we may be able a ple with pure breeding animals. And in view o fess that I do not like for men to get up here at out of a large flock of a given kind of sheep you contain eight or ten that would not be diseased. The perience. I have a farm situated tolerably high, to the purposes of sheep husbandry; and that may long-wooled sheep being unusually healthy, any kind of sheep will do well on low, wet, under

This other topic I would like to hear discusses that is, in regard to the results of the coupling of and small females.

Mr. Thompson. I see that Mr. Dungan is still in my language a little. As I stated before, the w were not "very large" males, but males of "good term I used.

Mr. Howland. I wish to say this, that if Mr. Du stood him to state, will not get up in the night and to his sheep, he is not doing his duty, and I hope bers of the association will follow his example in

The President announced that the committee of premiums on different grades of sheep was not yet and suggested that as there appeared to be no of time might be spent profitably in a general disculus bandry.

Mr. Pierson. There has been a great deal said in fects and consequences of keeping the Cotswold That, however, will not affect me at all, and that, the my theme on this occasion. I am keeping a feasheep. I am glad to see the interest and spirit the ifested here in regard to the qualities of the casheep, the different grades and the crosses that has hope that a larger number of our wool-growers me interest to pursue a similar course, and that they cessful under that arrangement. I shall, for me work right straight along down to the purest to never expecting my flock to attain to so large thealthy on my farm. I am keeping fifty head, troubled any with the scours; I have been rathe

that; my sheep are exceedingly healthy. I was talking with a gentleman the other day, here on the street, who is a very extensive farmer, and I said to him, speaking about how my sheep were getting along, "I have this season thirty-two lambs, and seven out of the thirty-two are ewe lambs." Said he: "Well, sir; that is enough. That is one evidence of the thrift and hardiness of the sheep that my father always looked at—that the lambs should be two-thirds more males than females." He said, "that was always an indication that the stock were in an excellent condition—an excellent state of health—any kind of stock."

Now, I want to talk a little about the matter of breeding to large bucks. My buck weighs probably from 190 to 200 pounds. He is from Weston's imported English buck; and a very fine specimen he is. I think I have now a stronger and as lively a lot of lambs as I ever have had. They grow right along. My ewes are all in good condition. I did not put them onto young clover, but kept the rack full of clean, fresh hay for them all the time, where they could reach right up and get it whenever they please. I have not had a single case of the scours in sheep. My sheep have been clean almost all the way through. I have had no clipping to do, except a little I did on some of the ewes, for the convenience of their lambs. I have three lambs that came on the 16th, 21st and 22d of this month. They are from Kentucky yearling ewes; and to my great surprise, those lambs, within fifteen minutes of the time they came into the world were hunting for the teat, and ready to make their living. They are growing and doing excellently well, I must say, even though I do not approve of such late breeding. My lambs commenced coming on the 22d of March, and came on down along till the 22d of May. I have thirty-two, and have lost but one; and that was a lamb that bled to death. There was, however, one ewe that had two lambs and one of them still born. So, I may say that with Cotswold sheep I have had good luck as a general thing. My sheep are not exceedingly large; some of my ewes weighs 200 pounds, and one of the last wethers I sold weighed 220 pounds. I hope to hear from other members, and hope they will give us as full a description of their flocks as possible. I omitted to state anything as to my wool product. Out of the forty-five that I sheared the average weight of wool was 10½ pounds. Twenty-six of them made 12½ pounds apiece.

Mr. Thompson. I have read some in regard to the question of whether it is possible to control sex in the breeding of animals. I have seen several theories advanced, and have tried to test some of them; and the result was, as is the case when you come to test a good many other things that you find in books, that they all went

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In one of the older countries, according to Stewart o take young vigorous ewes and breed them to yo as, and that under those circumstances nature w trongly towards reproduction and multiplication worable circumstances, so that the breeder might proportion of ewe lambs, and that, on the other h ewes were bred there would be a larger proportic than of females. This was the theory; but in my have been unable to find any evidence to carry it things have occurred that led me to think there 1 it, but the very next time the result would be ex ome five years ago, when I began to breed Shropsh e young and in good condition, and the rams were lition. I wanted to give them the best chance post em on the serving system, letting one in at a t at got the first twelve or fifteen lambs, with one or entions, were young, and the lambs were mostly m y say, it has been my observation, generally, that if orous a majority of the first lambs were bucks; ns had run with the flock for a week or two, I we lambs than males. That would be while the ram rous condition than at first. Then, again, towards eason, I would get more buck lambs. That has I ce.

nd. What age buck do you prefer?

won. That depends on how he is used. I like an has not been run to death. If I wanted a Merit two-year-old, and for a Shropshire a yearling. It e full benefit of him I would use him sparingly the then I would expect him to serve me well until he years old. If some other man had used him, howe know anything about what to expect from him.

1d. How many ewes do you think proper to put to

sed too strong in the outset will serve thirty or for are, say five or six ewes, turned in with him am all, one right after the other, before he stops; upt to break him down in the beginning. I thin ous ram ought to serve forty ewes the fall after he the next year do a good deal better. I have rams that are six years old, and I have the best lambs I appears are rams.

I agree with Mr. Thompson, that how many ew-

buck will serve depends on how he is used. I have known a buck to serve sixty ewes a season and be successful in getting them nearly all with lamb, and lambs that were good and strong and turned out well. Of course he was well taken care of. If you turn the buck loose among the ewes I think twenty-five ewes is enough. Then, too, it is likely that your lambs will come scattering—more so than they would if the ewes were served in order as you let them to him. It is a little troublesome, to be sure, to take care of a buck as I think he should be taken care of, but I think it pays, especially in the raising of good sheep.

On motion, it was resolved that the president appoint a committee of three members, whose duty it shall be to examine and report upon samples of wool and award the premiums therefor.

Adjourned.

SECOND DAY.

THURSDAY, MAY 27, 1880.

The association met pursuant to adjournment, the president in the chair.

Mr. Dungan moved that a committee of three be appointed by the chair, to arrange a programme for the January meeting of 1881, and that it be made the duty of said committee to select topics to be considered and assign the same to such members of the association as they may select.

The motion prevailed, and the chair appointed as such committee Messrs. Dungan, Howland and Robe.

Mr. Farquhar moved that the secretary be instructed to secure reduced fare on all the railroads of the State, so far practicable, for members of the association, going to and returning from its meetings. Carried.

Mr. Darnell moved to reconsider the resolution adopted on yesterday, whereby the president was directed to appoint a special committee on samples of wool and award of premiums, out of the membership of the association. The motion to reconsider prevailed, and the chair announced that the question would be on adopting the resolution.

Mr. Darnell moved to amend the resolution so as to read two woolen manufacturers and one member of the association. The amendment prevailed, and the resolution thus amended was adopted.

The names of Messrs. William Merritt and Isaac N. Thalman, of Indianapolis, were mentioned and agreed to by common consent,

STATE WOOL GROWER'S ASSOCIATI

. H. Haverstick was added to committee fro the association.

otion of Mr. Pearson, Mr. Darnell was appointify Messrs. Merritt and Thalman of their their presence.

special committee on programme for Janu bmitted the following list of topics, with the whom the same were assigned:

seases of sheep and their remedies. Dr. J

ould sheep be fed grain during winter, and i to the production of both wool and mut Frenton.

fluence of sheep husbandry on life and els, Rushville, Indiana.

what age is it the most profitable to sell outd, Indianapolis.

ben and how to shear sheep. John L. The ow shall we breed and manage a flock of co or the greatest profits? Jacob Farquhar, Tr eport was concurred in.

'earson called the attention of the association neeting of 1878 a committee was appointed ion to the protection of sheep from dogs, a the Legislature. Said committee had not a yet.

otion, the said committee was requested to

'hompson. Mr. President: I was a member of found that the preparation of the bill, presture and taking the necessary steps to secur a great deal of labor, and far more time that d. There were legal questions involved, and respect to the rights of other people become of the members of the committee state uties to perform which rendered it impossis eir attention to the matter, and it was final ulders of myself, Mr. Heron and the secret Mr. Sunman. I wrote out and submitted to nhers of the committee a bill which they at the original draft of the bill here, and with association will read it, and make some explain the gentleman read the document.]

ferred with a number of members of the

regard to this bill, and they pledged to it their hearty before it went before the legislature a certain gentle the consent or the knowledge of either myself or Mr. it upon himself to alter one section of that bill, and the of that change was, that when it went before the Legi in such a form that I could not have voted for it myse no law. There were things inserted in the bill that n stitutional as I discovered from the extracts that were the newspapers, and thus the thing was killed. The but I defy any man who looks over the whole ground hends the situation to draft a bill that will get us rid fewer words. You can not deprive a citizen of his p out due process of law. The matter must be care right here. The neighbor's dog is not to be counted be unfair to protect the wool growers' sheep and give to the neighbor's dog. The bill, as it went before th declared the dog a nuisance, and that it might be k punity whenever it was found out of the company You never could get the Legislature to pass such an a would never vote for it. I have had dogs, and dogs t as much of, to say the least, as I did of any sheep I ev object of the association in securing legislation on th protect the sheep by getting us rid of worthless dogs tain that this bill would do that thing in less than f that there would be a revenue sufficient to pay for all t dogs and leave a surplus for the school fund.

This bill was agreed to by the committee, and it w lay it before the Legislature, and I did not know of an but supposed it was before that body in the form in originally, until I discovered that it had been put it tionable shape which finally defeated it. Now you us situation. The bill received not only defeat, but ridic self was made the object of criticism and censure f sources, on the supposition that I had gotten up a l worthless and absurd—a bill so obnoxious that nobo port it.

Now, I understand it to be the interest of wool gr as heavy a tax placed upon the dog as possible. On t I do not want to do my neighbor injustice by killing out due process of law, neither can I do so with whatever might be the action of a justice of the pea question at all, that were a case of the kind to be ap higher courts, I would be found to be a wrong doer an the penalty. I believe that any man is legally warrar

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en he finds him in the act of worrying his escapes, and the man afterwards kills him, he want this matter worked out justly to all a many sheep in Indiana as there ought to a many by 500,000 as there would be in finade a law. On the other hand, if this be bers of the association I hope they will a gest that another committee be appointed of the next Legislature, and endeavor an as we need at their hands. Farther than anything further to report.

as the report of the committee, and the

woolen goods, being the persons chosen to pon samples of wool. Mr. Merritt said: esident: I wish to say a few words in referes I understand we have been called in for a comparison by sample. I judge that you from each fleece, and not the whole fleece.

purchases a lot of wool upon the faith We frequently receive samples by mail, derably below what we regard as a safe fig uch samples. In consequence of this, our ective merits of your wool may not be ver ave to have the whole fleece before us in o at and useful award. However, we will do se samples, trying to give you some hints en though we have not as fair an opportu ould want if we were examining wool with I will name another matter that has been observation on various flocks of sheep that m. I think that hereafter (and Mr. Thaln nia), in offering any premium, or in discuss ent flocks of sheep, reference should be had is of scoured wool shorn from the sheep, an of wool as it comes from the sheep. There ou all know, in the amount of shrinkage or lots of sheep, and this the manufacturer consideration in buying. It is the scoure he will get from the lot that determines to pay. The very large, heavy-weight fleet ving for, and which, within certain bounprofitable kind of wool, should not be pushed to the extent of making them heavy by breeding for oil instead of wool; for it is the wool that has the value in it, while the oil is worthless. The advantage gained by the excess of oil is only temporary, being the same that the manufacturer gets by using "shoddy" in place of good wool. The less oil the better.

Mr. Thompson. Mr. Merritt remarked that oil was not a thing that we should breed for. Now, in breeding Merinos, we have to breed for oil, for without we have oil we will not get that fineness of fibre and strength of fibre that are of so great importance. Of course, we do not want to carry it that extreme point where we get gum in the fleece, but to breed so as to get a nice oil is not going too far.

Mr. Thalman. Of course, the natural oil that rises in the fleece, gives the wool strength and lustre, but gum in the wool is, of course, all wrong. Your committee wish, Mr. President, before we go out for the purpose of examining your specimens of wool, to know precisely what you want us to do. Of course, we can not determine what kind of wool is most profitable for the wool growers to raise. We can decide for you what wool is most desirable at the present time, and what will bring the most money to the pound, but we can not decide the number of pounds; that is out of our line. The largest amount of wool produced now is this long heavy Cotswold. Some of that has run into a hairy coarse wool. That is going to come down in price; in five years from this time it will be lower by from five to ten cents per pound. I am satisfied that it is to the interest of all wool growers to cross with the Merinos where they have this coarse quality of wool, and that cross, I think, will produce the kind of wool that will, in the future, bring the best price.

The President. I would ask Mr. Thalman if he would not regard the decline in price of this long wool, which has become a little too coarse, as possibly owing to the fact that it has come to be more abundant than it used to be?

Mr. Thalman. In all our sales to eastern parties we have found them rejecting that coarse wool as fit only for the coarsest fabrics, They uniformly select the fine fibre. There is no question that the value of the coarse wool has depreciated. If you can keep it long and have it fine of course that is so much the better.

The President. The longer the better, so that you keep the quality of fibre right?

Mr. Thalman. Exactly.

Mr. Merritt. I wish to state that my remarks were intended to apply only to that extreme where the breeding is for gum or oil

instead of wool. Of course the more wool there is in the fleece the better. There is another reason for the preference given to medium wool as against the long wool, besides the abundance of the long wool at the present time. Medium wool will always bear a better relative price than very long and coarse wool, for the reason that the former is a grade of wool that is not raised in any other country in the world; that no foreign wool can compete with, and a very desirable wool for the manufacturer. It is like our people, made up of all sorts of elements blended together—the result being the production, in the one case of an admirable race of people, and in the other an excellent quality of wool. [Laughter and applause.]

The committee then retired to examine samples of wool.

Mr. Thrasher, from a special committee, reported the following resolution:

Resolved, That it is the sense of this association that the Legislature pass a law to consolidate the township dog fund into a county fund, and that it be held for that purpose only.

Signed by Committee.

Mr. Thrasher. There was something more than that appended to this yesterday—something about authorizing constables to kill all dogs found within their townships that had not been given in. I can never get any bill through the Legislature with that on it. There are a great many persons who do not know anything about the dog tax at the present time. I did not know much about it myself till lately, when I examined the law. The law, as it now stands, taxes each male dog one dollar and each female two dollars. amounts to a considerable sum of money in each township. Heretofore, and as the law now stands, the township that has no sheep killed at all in a given year does not use any portion of their dog fund that year. What becomes of the money? Why, on the 1st of January here comes around the Superintendent of Public Instruction and scoops it in—steals that money from the township that paid it in, and puts it into the general school fund. I said "steal;" that is the proper name for the proceeding, and I emphasize it. The money is diverted from the purpose for which it was raised. It was raised for the purpose of paying for the loss of sheep killed by dogs, and it is diverted to the school fund. We want to forestall that diversion by having the money put into a county fund, and paid out to cover all the losses on sheep killed by dogs anywhere in the county. You can pass that; but you get up a bill with three or four other things tacked on to it, and they will kill it sure. But take that proposition by itself, and appoint a committee, not of five nor of three, but a committee of one—a wide-awake, working, energetic man, and I believe that thing can be put through in such a shape as to be of practical use to the sheep-raisers of this State. If that, it is all we want.

Mr. McDaniel. I feel, in behalf of county school supe that the word "steal" is a little too strong, and we had be it a little. I agree with Mr. Thrasher that that is the for it, I will say that much, here "in the family."

Mr. Howland. The question of how to protect the how to get rid of the dogs will, I fear, always be a tion; still it is a matter that could be easily regul men who compose our Legislature had sand enough in acter to put the proper measures through. the average man in the country thinks more of the he does of the sheep, and the Legislature knows. our representatives keep two or three dogs apiece are of the degenerate race of "yaller dogs," too, for part. [Laughter.] There is a law in England that ! "to time," but in this great and free country of ours suc not take with most people. About one man in a dozen l and the man who does not keep sheep cares not a red (man who does. A law whereby every man should be take out a license in order to keep a dog, and a law that him if he kept a dog without such license would be of if it could be enforced, but that you can not get through lature, because so many men own dogs. There is not three of those who own dogs that pays the dollar or the that the law assesses them with, but if a man knew h fined for keeping an unlicensed dog or bitch, and that i pay the fine he would have to go to jail, then he would the mark and pay for his license.

Mr. Thrusher. How are you going to collect the mone man is not worth the amount of the fine.

Mr. Howland. He would have to go to jail or get rid and that is what we are after.

Mr. Thrasher. Yes, you put him in jail and let him until his time runs out, and as soon as he gets out a burn your barn or throw down your fences and ruin you

Mr. Hammond. He should not know who informs. There is a way of getting at it without making yourself this city they have a law requiring every dog to be licent an officer of the law sees a dog running about without showing the number of his license, he hunts up the ow the dog is not licensed he is killed—the dog, I mean, not [Laughter.] Now, understand me, that I am not urging you, and do not ask you to adopt it unless it is the thing

E WOOL GROWER'S ASSOCIATION.

osing the other measures that have been a to me, however, that the best thing we co would be most likely to secure at the har ld be a law requiring people who keep take out a license for each dog or bitch uch license, the same as is the case in citi id that would pay for all the sheep killed, ir as many dogs, either. Mr. Thrasher's r ext best thing; though there is one feats ect the bill to ridicule in the Legislature; ses to hold the dog fund forever, even the detriment of the educational interes be characterized as "taking the childre the dogs." [Laughter.] They are apt to e Legislature. I think, therefore, that the ation annexed to the proposition before How big a fund will you want? How hat are you going to do with the surplus ur township trustees never pay more t a sheep that has been killed.

Then we should have them required by I d to give the party an opportunity to pr

There is a claim made generally now, a good many sheep that the dogs do not metimes pay two or three prices. That ear. Madam Rumor tells that.

Yes, that is one of the things you hear. This very question of a dog law is one of and then run afoul of, and it it is one of any we have to meet. We all, perhaps, hat would be the best thing, but the quark work work and the great opposition that anything of the great opposition that anything of the are men in every Legislature who gast to advocate the repeal of the dog law to books. I have heard men say they were prevented men from keeping large packs

Men say the foxes catch and kill their la comparatively wild country lying in the , and that they could not raise sheep. I me from a southern county, who made proposition to modify the dog law every of

REPORT.

got, and who said that that was one of the things he had pledged himself before his people to do. There are a great many men who think the dog tax ought to be removed; and, upon the whole, my opinion is that we have got as good a dog law now as we are likely to get soon. Of course it is not what we would like to have, but if we can get even a small cracker, let us not refuse to take it because we can not get a loaf of bread. I happened to strike in the Indiana Farmer, this morning, a paragraph that gives just what you meet everywhere. Members of the Legislature, you know, think they must so act as to be popular with their constituents.

[Here the gentleman read the paragraph referred to.]

I read this to show you the feelings of some particular men on this subject. Probably, the man who wrote this is a candidate for the Legislature in his county, and he may go there. He does not sign his name to the article, but only his initials. He may, for anything we know to the contrary, intend to go before the people with this identical hobby. I think we had well say as little as possible about dog laws.

Mr. Thrasher. I want to answer the gentleman who spoke a while ago, and who stated that his law was a better thing than the one I have introduced, the substance of, in this resolution.

Mr. Howland. The gentleman misunderstood me. I did not say it was better; I was merely expressing my own views as an individual as to what was the best thing to be done.

Mr. Thrasher. There should undoubtedly be some distinction made as to the value of sheep killed by dogs. Some sheep are worth eight or ten dollars a head, and some are not worth more than two. They should be paid for, not at a fixed rate per head, of all sorts, all around, but according to their real money value. Now we can pay all that the sheep are worth if you get this fund consolidated into a county fund, and at the same time avoid offending these out-counties that raise dogs and raise no sheep. They will not know anything about it, nor care anything about it. Such a law as that you can get through, probably. Now, these men who keep dogs are voters, but I hold that a man who keeps three or four dogs is of very little account to the neighborhood, and had better be out of it; he is of no use to society. Now, if we can get this fund consolidated, and have the money properly distributed where the depredations upon sheep are committed, men can get a fair price for their sheep when they are killed. I believe that such a law as that can be gotten through the Legislature, but with the attachments that were on it yesterday, authorizing the killing of dogs, there will be something else killed before you get near the dog, and that will be the bill itself. There would be something else killed besides the

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o, if the law was passed in that shape. It would be your r horse, or something else, that would suffer by way of r or your killing the dog. These men who keep the dog general, responsible. We must not trample too muc ights. We must compromise the thing as best we can an not get all we want we should be glad to get somet little better than what we have now.

Thompson. My friends here are advocating some elegant i an hardly approve of them, with all their elegance. Pu in jail is one thing, and getting rid of the dog is anothe like to see how my friend would look going with his o st a citizen and put him in jail for not paying his dog we want is to get rid of the dog, and jailing the o getting rid of the dog. To consolidate the funds in or proposed by the resolution of Mr. Thrasher will a isiness cumbersome. Nobody can know so well how is working in the different townships as the people ght in each township-right on the ground. hand, if everybody is required by law to get his ed it is every citizen's right to know whether it is licens I have the assurance from the mouths of a dozen diffe ers of the last Legislature that the bill I drew up would , but for the unauthorized changes that were made in i lessen the school tax. Hence, I say if there should pro ifficient revenue from the dog tax alone to make all taxes unnecessary; so mote it be. We want this thing t al, and in order to make it effectual we want to reach the If; we do not care about reaching the man or his fa ever you get rid of a dog you must do it through legal You are justifiable in killing a man's dog while in the him escape to his home, and then kill him, and you will it that the owner of the dog has rights which the rais is bound to respect. I have seen men paid for their she our times their value, and others at less than one-four they were worth. In this bill I have provided that she shall be appraised at their fair value by disinterested pa ends are opposing this measure, some of them from the at they have not read it. I respectfully ask for the judg association upon the merits of the bill, as I originally All I ask of you is either to approve it or to reject it.

Darnell. You say in that bill, do you not, that \$200 shi the township treasury?

Thompson. That is the fact; yes, sir.

Mr. Darnell. How would that work where there are \$400 or \$500 worth of sheep killed in a township?

Mr. Thompson. It does not say, as you will see by reference to the language of the bill, that there shall always be \$200 in the treasury.

Mr. Howland. But after all how are you going to get rid of the dogs?

Mr. Thompson. One of the best points in the whole thing is right there—how to get rid of the dog? I will show you how that is to be done. [Mr. Thompson here read one of the sections in the proposed law.]

The chair announced that the question before the meeting was upon the adoption of the resolution reported by the special committee. Thereupon the resolution was adopted.

The committee on award of premiums on samples of wool exhibited, reported that they had made awards as follows:

On long wool—First premium, S. W. Dungan; second premium, C. F. Darnell.

On medium and fine wool—First premium, John L. Thompson; second premium, John L. Thompson.

The thanks of the association were tendered the committee.

Mr. I. J. Farquhar, in behalf of the Executive Committee, presented the following report on the "classification of the different breeds of sheep at our State and County Fairs."

Class A—Fine wool sheep: to include American, French and Spanish Merinos.

Class B—Long wool sheep: to include Cotswold, Lincolnshire and Leicester.

Class C—Medium wool sheep: Southdown, Oxforddown and Shropshire.

Class D—Crossbred sheep: to include the cross of two or more of the above thoroughbred sheep.

Rules—All exhibitors of sheep, except of lambs, are required to furnish the committee a certificate of the time and manner of shearing. All sheep must have been sheared close and smooth, not earlier than the 1st of April. They shall also furnish the committee a certificate stating the age of lambs. All rams of two years old and over, shall be judged as breeders by their get, of which there shall be at least two of each sex. Evidence will be required that ewes exhibited as breeders are not barren, and no award shall be made where there is unsoundness in breeding qualities. No premiums will be paid any exhibitor that refuses to comply with the above rules.

The report was concurred in.

There appearing no further business, the association then adjourned till the January session, 1881.

VOOL GROWER'S AS

NUARY MEETING,

l Grower's Association at the rooms of the §

orary absence of the r. H. Thompson, was castary pro tem.

fliction of meetings, the ne time and place, a converted to consider the appointed the appoi

t Morency, being called 1880.

-Cotswold.

Dr.

0 per	r head head
	<i>Cr.</i> 35 cents
•	**************************************

from credit, leaves a head, \$13.14; average fed grain during the production of both we say ist being sick.

Mr. Dungan. I invariably feed plenty of grain, mo During winter, I feed from one-half to two ears per sheel If I feed oats, or ground stuff, I always mix it with shelle

Mr. Howland. I would not feed much corn unless sheep plenty of grass. Think it too binding where they are retimothy hay. Think corn too expensive to be very profide not wish to plow all summer to get through the wint main, I would not feed much corn to sheep. Have had effects from feeding corn.

Mr. McDaniels. I never had any bad effects from feet and plenty of it at that, and think it very profitable. I ewes in my cornfields as soon as I finish plowing my corn out the fence corners and eat what weeds and grass I can up. They eat some of the lower blades of the corn, bu hurts my sheep or my corn. I think the corn they eat two dollars per bushel in the field. I put my lambs on ows for fear they will not get enough to eat in the cornfiel North Carolina tar in my sheep troughs for the sheep to their salt, and would nearly as soon be without salt as tar feed my sheep sulphur, but clip all ticks on the old shee shear, and take a tin can and make it into a pepper box a on all my lambs freely for ticks.

Dr. A. C. Stevenson. I have kept from one thousand to sand eight hundred sheep, and have handled sheep for a 1 years, but now only have a flock of about sixty. Have sheep without any grain by giving a run of plenty of blue now usually sow a field of rye for winter pasture, in my last of August or first of September. I often put some sheep in this early that do not appear to be doing well, ar no need of further attention, as it seems to answer all requ Sheep should be kept at even flesh and not allowed to sta and then be full fed. This will have a tendency to bad h to make a tender place in the fiber of the wool, and buyer cover it and condemn it as poor wool. I never have pract ing sheep in the cornfield, but favor it, for the reason th labor in gathering and feeding, is not wasteful, leaves the on the field already nicely scattered. No particular kin made more wool than any other, unless it tended to make more healthy. Keep sheep healthy and in good even fles best growth of wool and mutton is attained.

A Member. Doctor, how late do you pasture your r spring?

Dr. A. C. Stevenson. I have moved it three times and t very fair yield where the ground was rich. You may pe

desire, and then it will grow as tall as you can cut it with the ie. I have pastured as late as the first of May, but I usually f of it on good supporting blue grass. The rye will then a profitable a crop as corn, for it is made at much less cost. anure of the sheep is the best of animal droppings to enrich ds. It seems to sink into the ground better and don't evaps the cow droppings seem to do, and seems to be a better beeder, and the rye, if lodged, is equal to a clover crop for ng the soil, and, with the sheep droppings, would enrich our astead of impoverishing them, which is a matter of great imprese.

Magee. I feed shelled oats, bran and corn in preparing my or the fair.

Recler. I think the rye an excellent winter sheep pasture, and iter grazing will pay the labor and cost of seeding if you plow i the spring.

some further discussion, it was decided by resolution, unany passed, that corn was the best winter grain feed for sheep-lee McDaniels of Rushville, Indiana, then read the followay on —

*LUENCES OF SHEEP HUSBANDRY ON LIFE AND CHARACTER."

sident and Gentlemen of the Convention:

s been assigned my duty to write an essay on the influence p husbandry on life and character. The Bible and history that sheep husbandry has been an occupation ever since the g of this earth. Abel was a keeper of sheep, and his occuand sacrifice alike was accepted of the Lord; while Cam's tion in tilling the soil marred his temperament so that he d slew his brother. This is a striking circumstance that took x thousand years ago between two brothers, and holds good So from Abel down the shepherd's office has been honored iarchs, prophets, priests and kings. Abraham, Isaac and Jad almost all the prophets, priests and kings were shepherds; d honored the occupation. And I am glad to-day that I repherd. The glad news was told the shepherds by night of ent and mission of the blessed Savior, and will continue old till the end of time by humble men. Our occupation vays be honored, and now stands forth in importance in the States. It is not only honorable, but its occupation has a ecuniary influence upon life and character. Most of men If when making money easy and fast; you can always count

on him being in good humor. There is nothing about sheep husbandry to cause a man to get out of fix once in a year. There is no rooting up of nice blue-grass pastures, nor for one to break back in driving, like hogs always do, and cause a swearing influence to come upon man, if there is any in him, or to eat two crops of corn and then die with the cholera, for when you have him fat, you must sell, high or low. Not so with sheep. I know there is money in hogs when the tide runs smooth; but it is hard on men, hard on ground and hard on teams. Cattle come next to sheep, but when they are large and heavy they almost ruin the ground you intend to plow, and if there are twenty in a herd in the spring of the year, when they begin to shed each fellow will get his neck under a fence corner where a long rail sticks out, and rub until some fellow accidentally rubs his corner down, then in goes twenty head of cattle into your corn or wheat. This little accident will have a bad influence upon the character of most men. Now this never occurs with sheep. Then you have to wait three years for your money with cattle, and only one with sheep. When you sell your cattle your farm is without stock, and it is hard on an old man to gather up a bunch of cattle, and sometimes your grass will go to loss because you can't get them, or perhaps the price won't suit. Not so with sheep. They cost less money; may be more easily collected than cattle. Sheep begin to multiply very much earlier, and continue more regularly and rapidly; will double themselves each year. No other stock in the world will do it; for a yearling is as good as an old sheep. They are great scavengers; they will come nearer living on nothing than any other stock in the land. Although I do not advise this kind of sheep husbandry, yet drouths do come some years, when you would have to sell your cattle. Sheep will do with less water and less pasture than any animal living. Then this is the right year to hold your sheep, as all the cattle will be rushed into market too soon, and sheep will be very high; please notice these facts. Sheep will rid the farmer of every noxious weed, and at the same time profit themselves by their consumption as food and medicine, and return to the soil the best manure in the world, and evenly spread on; far ahead of cattle in that respect as it is not left in hard dry lumps to kill the grass and remain for years.

And, further, if a man should be pressed for a little money, he could sell a few of his flock and do his own selecting, which is the most important part of handling sheep. Moreover, it is an unknown fact that sheep are the only stock that you can feed whole grain to with the best of results. In short, the quick large profits to be gained by handling sheep has saved many a man

nd ruin. And this of it life and character, mora e in session, resolve to see m elect a United States ! of the United States v pply this 50,000,000 or 60, work. Let us ask our nge in our present dog l y are behind as much as noney into the school fu ed and thrown into gene ie sheep killed, at a fair o the school fund. The c willing for the sheep me tent of law. We ask the ow a township line, and ork. I have investigated ing. This would leave t . give us plenty of mone buy and sell at for cash. trustee understands this t ur sheep according to wh ssay was fully concurred 1.

b Farquhar, on " How she i or Grade Sheep for the y, Mr. Sunman.

et at Agricultural Rooms

BECOND DAY'S SESSIO

Thursday er was the president's ad ma:

on to be discouraged, an ual gatherings will cause a Indiana. There are med. Our climate and soir. The United States should Indiana should help to upation, both as to health on the shepherd's charact the dogs of the country

not do well together. Either dogs must be scarce and sheep plentyor sheep scarce and dogs plenty. Where there are lots of sheep,
school houses and churches are plenty and well attended in the
country, and prosperity is plain to be seen, land bearing a good
price and farmers well up with the times; but where dogs are
plenty, the reverse is true, idleness and indolence almost taking possession of of the farm; land cheap, and everybody wanting to sell
and can't. Let us all try to raise more sheep and influence our
neighbors to raise, and thus do what we can to spread civilization
and good cheer.

Dr. J. N. Navin then addressed the association on

DISEASES OF SHEEP AND DIFFERENT BREEDS.

The sheep is naturally the healthiest, though the tenderest, of all domestic animals, scarcely ever getting sick, except from some great provocation, malarial influence having more to do with it than all other causes combined. The sheep is an inhabitant of every climate from the torrid to the frigid zone. It seems to adapt its shape and the texture of its wool to the climates of every country of which it is a native. In hot climates its wool is scarcely finer than hair, and in temperate or colder climates it is finer, until the silky wool of the Saxony sheep is reached. It also can and does subsist on whatever fare its native country produces. In fact, sheep in some countries live chiefly upon salt fish, and in all countries its flesh is admitted to be the healthiest of all animal food. In Europe the sheep is subject to about

Twenty-five Diseases,

None of which are incident without cause or provocation, except, perhaps, thrush in the mouth, or blain. With these two exceptions, all others are the result of treatment, or of malarial influence. Foot disease, the rot and dropsy are the result of malaria and pasturing upon wet and marshy lands. Diarrhesa and dysentery are the effect of feeding, or of some affection of the liver by malaria. Water on the brain, epilepsy, apoplexy, hydatid on the brain and lockjaw are caused the same as in other domestic brutes. Bots in the sinuses of the head are the larvæ of the fly, so called, but smaller than those which horsemen dread so much. Bronchitis, lung fever, colic and inflammation of the brain are also manufactured diseases, or the effect of treatment or usage.

The Rot

Is, perhaps, the most formidable disease of the sheep. It has its origin in the liver, and subsequently affects the entire glandular

system, the lungs, the kidneys and the entire cellular system; the abdomen becomes filled with serum (water) of a greenish color. This is called dropsy by some veterinary surgeons and sheep raisers. But this is erroneous. Its symptoms and cause are of more importance to know than is the remedy. These are dullness, bluish color of the skin, diarrhea and thirst, which are the main symptoms of the disease. Thirst, however, is the most noticeable, from the fact that sheep never drink in parts of Europe until taken with the rot. Neither do they eat salt there. The great and immediate cause of rot is attributable to wet or marshy lands, except in wet seasons, when all lands may rot more or less. And strange to say, no sheep ever contracts the disease on either dry or wet lands, while rain continues to fall and keeps fresh upon the ground. It is therefore a prevailing opinion, if not certain, that the little insects found in the biliary duct and gall bladder, called flukes, are taken up by the sheep off the grass after the ground dries up, and are passed into the liver through the absorbants or lacteals of the bowels, which take up the nutriment out of the food, as trichina in pork is, by the human subject. After sheep are seen to drink, or the blueness of the skin is observed, they are pronounced as having the rot, and if not in order for the butcher they are immediately removed to luxuriant pastures and fattened, and will fatten (if not more readily) equally as readily as healthy sheep for at least two months.

Dropsy-Red Water,

is a disease much resembling the rot in many respects; the water in this disease is found in the chest and in the abdomen, and of a reddish serous color, differing from the green color in rot. The symptoms of the disease are enlargement of the abdomen, a puffy swelling beneath or between the jaws, hurried breathing; either costiveness or diarrhoea may be present. If observed in time it may be successfully treated until the sheep is found uneasy, largely swollen, and breathing hard; at this stage of the disease nothing can be done.

Foot-rot is a very troublesome disease to the shepherd in wet or in muddy places, or wet pastures.

Cause.

Between the hoofs of the sheep a small aperture may be seen, called the biflex canal, whose office it is to secrete an oily fluid for the purpose of lubricating the hide between the hoofs, it being called into action by every step the sheep takes in providing its food, therefore, when perpetually wet, or constantly dirty, the parts swell, and this secretion, already spoken of, is stopped or retarded;

therefore, not only is the hide deprived of the oily secretion, but the secretion itself becomes an irritant of the glands which secreted it, therefore inflammation of the parts is the consequent result. Hence foot-rot, which, unless retarded and remedied very soon, destroys not only the hoofs, but the glands, and perhaps the coronary border which secretes the hoofs.

The Most Profitable Breed, or Breeds of Sheep.

Much has been written and published in the agricultural papers by the different breeders of sheep, evidently for the purpose of selling portions of their stock for high prices; each writer, of course, true to his individual interest, therefore not stopping at any assertion likely to be credited by the unwary. Each succeeding year for the last ten or twelve years has brought us such immense weights of fleece over the last year's weight, that at such a ratio our stock of sheep would appear to be turning into wool, leaving very little to be placed to the mutton side of the account. A few years ago no sheep-master would venture to assert that a ewe of his sheared over twelve pounds, or a ram more than fifteen pounds. This, then, was considered a superior weight of fleece, and indeed it was, and still is.

Subsequently, however, men have advertised fifteen for ewes and twenty for rams and wethers. To beat the above weights, innocent men, just for an experiment, you know, weighed their fleeces and became agreeably surprised to find that their flocks outstripped all prior weights, and inform the public that they obtained twentyfive and some thirty pound fleeces, and thought themselves monarchs of all they survey, if not the American continent, and of course the universe, until Kansas is heard from with thirty-five pound fleeces. Now, if one man upon the face of the earth is dupe enough to credit such an assertion, he should be tenderly taken Thirty-five pounds of wool, five hundred and sixty ounces, in one year's growth, is one ounce and a half per day, less twentyfive ounces divided upon the three hundred and sixty-five days in the year. Will any sane man acknowledge himself such a dupe as to credit such a fabrication, especially when we find the weight of carcass of those sheep averaging one hundred and ten to one hundred and twenty pounds after shearing. Next season it is expected that the above will be beaten, and if such increase of wool reduces the carcass, we shall see men publishing heavy carcasses. To be just toward my Kansas friend, I shall strike a debtor and creditor sheet, allowing him thirty-five on the creditor's side, and charging a debit against him of yolk ten pounds and dirt ten pounds, leaving of clear wool fifteen pounds. Wool, not yolk (grease), is what the people delight to read about—it is all that will draw money.

STATE WOOL GROWER'S ASSOCIATION.

Gentlemen, the controversy is scarcely waged between the prietors of long-wooled breeds, or middle-wooled breeds, or against middle, but between both, and the short-wools or Me Not being a breeder or owner of sheep, I therefore have no en to punish or friend to serve. I take the attitude of the Irish on board a ship in a storm, who prayed first to God and then to devil. When remonstrated with he said: "Sure I don't le whose hands I may fall into, and I don't want enemies." It so to me that no farmer who is capable of doing business shoul prejudiced in favor of any breed. I should take 1,000 sheep w yield seven pounds each, 7,000 pounds of fine wool; this is lil for fine wooled sheep, at 60 cents per pound, \$4,200; against sheep yielding twelve pounds each, 12,000 pounds, at 50 cents pound, \$6,000, this leaves a balance of \$1,200. This is not al the difference in weight of carcass is equally as important a item for food as is the wool as a fabric. When doctors differ, ever, it should be no wonder that farmer's notions should be asunder. My preference, if a wool grower, would be found either the Downs, the Leicesters, the Cotswolds or the Lincoln would have both mutton and wool, and consequently more me

DISCUSSION.

A Member. Doctor, what would you use to destroy ticks and rot?

I would use tobacco juice, one quart to one ounce of carbolic for ticks; rub spirits of turpentine on the biflex canal for foo

The president then read a communication from the Nat Wool Grower's Association in relation to the Eaton bill. M Clark, Stevenson and McClelland, committee, report.

The Eaton Bill.

The committee appointed to consider the communicatio ceived from the National Wool Grower's Association reporter following:

Resolved, By the Indiana Wool Grower's Association, that approve of the Eaton bill providing for the appointment of a mission consisting of nine members of practical experience, to into consideration the readjustment of the tariff, and make to gress such suggestions, after a thorough examination, as they think best for the interests of the country. Further,

Resolved, That the president and secretary of the Indiana Grower's Association be and they are hereby instructed to re the Indiana members in Congress to use their influence and in favor of the immediate passage of the bill.

RESOLUTIONS OF RESPECT FOR GOVERNOR WILLIAMS.

Committee appointed to draft a resolution on the death of our late governor was C. F. Darnell, C. A. Howland and T. W. W. Sunman.

Resolved, That in the death of our worthy brother and co-worker, Hon. James D. Williams, late governor of Indiana, the State has lost a good citizen and our association a much esteemed member.

S. W. Dungan, Thos. Nelson and W. L. Schooley were appointed a committee to consider the amount of premium the association would pay on wool exhibited at the May meeting, 1881.

Report—\$1 on first and 50 cents on second premium awarded on the different classes of wool. Adopted.

Adjourned till afternoon.

Called to order at 2 P. M.

SECRETARY'S REPORT.

Secretary T. W. W. Sunman, of Spades P. O., submitted a report of his stewardship, as follows:

To the Honorable President and Gentlemen of the Indiana Wool Growers' Association:

The secretary asks to report. There are now on the roll some sixty names as members, all of whom are live men and workers in the cause. I think much good has been done by your society since its origin, and look for much more good to be done by it in the future, for at no time since the settlement of this country was such an interest taken in the raising of sheep and the growing of wool as at present; and we need apprehend no danger of the market being glutted in our generation, for it will take many millions of sheep to supply the wool needed in this country to take the place of the imported article—for all countries owe their wealth not to what they import, but what they raise at home. Then as more sheep are raised more mutton will be used, which will tend to keep the supply below the demand; and then last, but not least, we have with us always "the faithful house dog," whose wants will be supplied whether we have to import wool or not.

I would recommend that this association instruct the secretary to write to all agricultural societies in our State, asking them to classify sheep as you may in your judgment recommend, and ask them to make their premium lists in accordance, so as to be more acceptable to sheep breeders than they now are.

John L. Thompson then read an interesting paper on

HOW AND WHEN TO SHEAR SHEEP.

It is plain that we can get no time that will suit all persons and circumstances. From last season's experience, I think we must

arlier than we have been doing in the past, as there was a eal of trouble on account of maggots and a number of sheep tich can only be avoided by early shearing. And in order to , we must discard the practice of washing the wool on the back, as this can not be safely done much before the first of n this climate, and by the time the sheep are dry and the oil ficiently raised, it is the middle of June before the shearing done. I would therefore recommend shearing without g, and as early as the season will admit of with safety to the say from the 1st to the 25th of May for the general farmer; seders who make a specialty of sheep, and have stables or s for them, will find it to their advantage to shear still earpecially ewes that are suckling lambs, as the lambs do much after the ewes are shorn. Ewes that have lambs loose conle of their wool if not shorn till the first of June. The ewe ve much more milk after being shorn, as the extra heat tends up the flow of milk. By shearing early we get a greater 1 of wool, as April, May and June are the best growing s, and this gives the sheep a good protection from the hot r of July and August. Of course we must avoid extremes in atter, and if we shear early we should house our sheep during ights, cold winds and rain storms. Humanity demands this hear late. In fact, early shorn sheep can stand the same def cold better than late shorn ones. As Randall very truly 'The change to them is not so great or sudden as when cold : follow shearing after they have been sweltering in their in hot weather."

How to Shear.

earing should be done on a clean floor." We shear on the our with the sheep penned in a small stable (floored on a level ne shearing floor); this saves unnecessary lifting. The stable be kept well covered with saw-dust or straw; saw-dust we set. We use a bench about knee-high—a little higher for sheep and somewhat lower for large ones.

shearer sets the sheep on its rump, on the bench, and standth his left foot upon the bench, lays the sheep's neck across t knee, with its right side against his body, commencing at isket and open the fleece down the right side of the belly to the flank or stifle; shear the belly in course, turning the wool left. Begin at the brisket and shear up the under side of the to middle of the under jaw, shearing left side of the face and to the left ear. Turn the sheep slightly around with its feet the shear from left ear down neck and side, taking in fore-leg coulders to left flank; next shear top-knot (if it has any) and head to right ear, down the neck and side, shearing well around to middle of the back and down to the point where other courses stopped; incline the sheep to you, begin at the back of the left hind-leg, shearing in courses with the leg to the thigh joint. Lay the sheep down on the right side, shear left hip to the tail; shear lengthwise of the tail and well under on the right hip; while in this position shear the twist and inside of right hind-leg. Raise up the the sheep (keeping a little wool under the left hip that it may rest comfortably), turning the shorn side to you, with its head again across your left leg; shear from right ear and jaw down the neck to right shoulder, grasp the right fore-leg gently in the left hand, shear fore-leg and shoulder; shear the right side down to the flank, inclining the sheep gently to you as you shear down. The sheep is then laid on its left side, and the wool shorn from the right hip and leg, finishing at the hoofs of same.

The more quietly and gently you handle the sheep from the time it is penned till shorn, the better for both it and you as regards "life and character."

[This essay was regarded so complete that it admitted of no discussion.]

Mr. C. A. Howland read an address on

"WHETHER IT IS MORE PROFITABLE TO SHEEP RAISERS TO SELL THEIR BUCK LAMBS TO BUTCHERS OR CHANGE THEM TO WETHERS AND KEEP THEM TILL THEY ARE FULLY MATURED."

The question assigned me for discussion by this honorable association, "Whether it is more profitable to sheep raisers to sell their buck lambs to butchers or change them to wethers and keep them till they are fully matured, or at what age should we sell our sheep," does not admit of any very extended argument. Much depends on the facilities possessed by the wool grower for sustaining sheep and suitable shelter for the ewes and lambs during winter and spring; for if we do not possess these requisites for successful sheep raising then we had better sell them at once, for without the above-mentioned essentials we can not profitably raise sheep to sell at any age; for in order to sell your lambs to butchers at remunerative prices they must be dropped in the latter part of winter or early spring. Lambs dropped after the weather becomes warm, grow less vigorous, and the demand for lambs lessens as the season advances. Lambs dropped in February or March may be sold to the butchers or weaned in May or June, giving the mother sheep ample time to recuperate and bring you an early lamb the ensuing year. Perhaps I am talking too much about early lambs. Pardon

would have your lambs pass through their ttle care as older sheep they must come e that is worried by her nursling during the h, and when winter comes you have a sorry f r ewes and stunted lambs that will require r n to take them through the winter than w ary to bestow on the same number of ewes revious winter and spring. We would recomn be be carefully selected to keep, though the bi price for them; the ewes for breeding, and b ers to be sold, when fully matured, for mu ot good breeders and wethers may be profiany time between three and six years of y other kind of stock, can be slaughtered at ar enient to the owner to fatten them. For instot favorable for the production of grass, they o a more favorable season without loss, the ig all expense of keeping them; and at no mend feeding grain to sheep to make mutton on with good grazing. We believe that all . ep good stock as long as it can be kept profit nferior stock at the first opportunity. At grow larger they yield a heavier fleece, make b more comely than ewes, hence make a more nich tends to ornament and make profitable a e it to our families and neighbors to make ofitable and interesting. We learn from hi the first animals domesticated by man. Men s have written and sang of their innocence ny mind there is nothing that would have a one to write or sing of that which is beautif n a well kept blue grass pasture, interspersed

as discussed at some length, the most impowhich seemed to take pretty much the same a discussion:

I think, to raise sheep profitably, they mu stuffed with grain—both sheep and cattle. must raise his wool on grass, and not corn. v all summer to get my stock through the w finds it very profitable to feed all the corn his: xt, do just what his sheep tell him to do, exce

REPORT.

go out in the cold snow to have a lamb, when they might choose a more comfortable place under the shed.

Here opinions were expressed on both sides, some having bad effects from feeding corn. This was generally believed to be where corn was injudiciously fed.

Dr. Stevenson said it made but little difference what they were fed, so they are well kept, and then gave an instance of some cattle wintered on hay alone that looked as well as those grained. The man who grazes altogether does not wear out his land, like the man who plows, and this is a matter that ought to be considered carefully.

C. F. Darnell, Uriah Privett and John L. Thompson, committee on grading sheep at fairs, offered the following resolution, which was adopted by the association, as the four classes sheep men desired fair managers to make in classifying sheep for premiums:

Resolved, That it is the sense of this association that there should be four classes of sheep for county and grange fairs, to include (1) long wool, (2) fine wool, (3) middle wool (which includes all the families of the Downs), and (4) includes grades and crosses.

COMMITTEE ON PROGRAMME FOR NEXT MAY MEETING.

The committee on programme for the May meeting submitted the following:

Semi-annual address of the president.

Appointment of all committees for the session.

"What is the best mode of wintering a flock of fifty or more sheep?" by D. H. Thompson.

"Manner and time of breeding ewes, and give the best mode of caring for lambs from time of birth to weaning," by Uriah Privett.

"What is the best cross to put on our common sheep?" by Lee McDaniel.

"What is the best mode of caring for the different breeds of sheep, including shelter, etc.?" by S. W. Dungan.

"The shepherd dog and his Character," by William Hodson.

"Characteristics of the Oxforshire Downs sheep," by T. S. Cooper.

J. W. ROBE, C. F. DARNELL, M. M. PIERSON.

The rules which should govern the competition in sheep at the State Fair were discussed, the general sentiment being favorable to the adoption of stricter rules, as to age, class, time of shearing, etc.

The association then went into the election of officers, with the following result: President, Fielding Beeler, Indianapolis; vice-

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BEE KEEPERS.

SECOND ANNUAL STATE CONVENTION.

The bee keepers of the State met in annual session, at 10 o'clock A. M., in the rooms of the State Board of Agriculture, and after friendly greetings, adjourned to 2 o'clock P. M.

The convention was called to order by President J. C. Belman, of Indianapolis. A call of the roll by Secretary Daugherty showed fifty members present.

Pursuant to programme, the secretary reported that of the sixtytwo members on the rolls of the association, sixteen had sent to him reports showing total number of "colonies" represented by them to be 719, with no surplus honey or wax. In connection with the report he also submitted the following:

THE BEE KEEPING INTEREST.

To the Honorable State Board of Agriculture:

GENTLEMEN—At the late convention of the Indiana State Bee Keepers' Association the following resolution was passed:

"Resolved, That the secretary of this association be instructed to confer with the State Board of Agriculture in respect to the further encouragement of the science of agriculture in the State of Indiana."

In pursuance of this resolution, I would respectfully call your attention to the bee keeping interest in this State. Your honorable Board, by the offer of premiums and other means, have encouraged almost every other department of industry in the domain of agriculture, manufacture and science, enabling those in search of knowledge to come to safe and inexpensive results. Stock raising, horticulture, dairying, wool growing, poultry raising and tile making are each separate and important interests receiving your special care, and by virtue of this precedent the bee keepers feel that they, too, are entitled

to some consideration at your hands. Too long has the id that bee keeping is a minor pursuit, in which so few car engage, that to neglect it as a prominent feature of o industries should not be regarded as detrimental to welfare. We hope a few facts will place this subject in Indiana has growing upon her soil almost as large a honey-producing plants as any State in the Union. We producing trees in vast numbers, such as basswood, po willow, and the various fruit trees. We have among the multitude of flowering shrubs and plants, white alsil clover, buckwheat, goldenrod, the many astors and manual fruits, currants, goosberries, raspberries, blackberriact, from the first blossoms of early spring to the cominification of Indiana are sufficiently prolific in the secretion afford our little pets abundant forage on which to work

The bee keeping interest has become one of vast natio ance, and is growing larger each year. To-day Ame first in the world for honey production, as well as fe management and improved implements for the apiary within the last two years exported more than five hund American honey to the Old World. We are also produ bred American queens, that at least are equal, if not those we import from Italy. It is estimated that we ! State thirty thousand colonies of bees, producing an a of fifteen pounds to the colony, or a total of four ht fifty thousand pounds of honey, which, at an averag and a half cents per pound, would produce a reven four thousand, two hundred and thirty-five dollars, lieve the estimate none too high. There is no 1 Indiana should not be in the front rank with prothe apiary. We have no reliable statistics from which information on this subject, but through the effort Newman, president of the National Bee Keepers' Ass rangements have been made to have complete statistics the government, while taking the census. Arrangeme being made by the executive committee of the Indiana ciation to gather all possible information on the sub State. As regards the offering of premiums, etc., I wou fully suggest the following as a competitive list: Best comb honey, one pound or more; best package of extra one pound or more; best crate of honey in the comb. i marketable shape; best display of honey, both comb and best machine for extracting honey; best display of wa best display of bee keepers' supplies.

In conclusion, I would ask that you also inquire into t bility of the establishment of an apiary, in connection v agricultural college. Other States have gone far ahead of in this respect. Michigan has, in connection with her tural college, an apiary, managed by a competent, practical turist, whose observations are recorded and published, an methods of treatment of the little insects are always ope inspection of learners. The State of Tennessee has follo worthy example of Michigan. This department, in connect. the agricultural colleges, should be, and will be, if successfu aged, not only self-sustaining, financially, but a repository of strated facts and scientific knowledge, to which the public sho full access, and bee-keeping will thereby be raised to the ra surely remunerative pursuit, instead of a haphazard spec Now, should your honorable board so far interest itself enterprise, as to ask, by formal resolution, the board of tru the State University to establish an Apiarian professorship nection with the agricultural department of the University. it will have done no more than the bee-keepers of India a right to expect of them, as the guardians of all industriests. Such a department would not only be a source of a knowledge, but a financial success, and shortly become University a source of revenue. Let it start with an a moderate size, say twenty-five or fifty colonies, and it will € a large interest on the investment, from the first year. T many questions yet to be solved, by experiments, which so well done only in an apiary of this kind.

Thanking you, gentlemen, for your kindness, I have th to be, respectfully yours,

FRANK L. DAUGHEI

Secretary of the Indiana State Bee-Keepers' Assoc

Following the report of the secretary, J. C. Belman deliv-

PRESIDENT'S ADDRESS.

Gentlemen of the Bee Keepers' Convention:

You are again assembled at the capital in State conventic liberate upon the interest pertaining to apiculture—bees a product. Since your last meeting but little has transpired apiarians throughout the State except what is patent to all eral regret that the harvest of the busy bee has been, in comparlance, "short." Every one present is fully advised as causes which produced this failure, and that against such there was no possible remedy. Very many colonies failed t sufficient quantum for their winter stores, and a necessary. The product for the market was a and instead of the choice wild clover or apple bl was sold the fall flower or wild exotic honey. marketable as the former. Close up to the last industrious bee, came a cold wave in October gions, which found very many of our bee keep sequel was, the weakening and loss of scores of of this unusual state of apicultural affairs, there at this session any encouraging reports as to the the year 1880. Such a condition of discouragin apiarism may not occur again in a lifetime, wh are that the approaching season will be grandly Therefore I give you good cheer and ductive. down deep into the fields of apiculture, and, mysterious instinct of the bee and its many bu let it be your highest pleasure to impart all in possess to your fellows, until the bee keepers ceive the plaudits of sister States-" Well don servants." This may be our triumph, provided a ing and guidance of an all-wise Providence.

While there is a possibility of too much care wintering of the bee from what it would receiv tree or a hole in the ground, there is undoubt prehended in the carelessness and indifference on account of which many colonies are lost, an indeed, those more experienced, attribute the fr and failure on the bees, on the hive, and even Providence, when to themselves and none other the mismanagement and unwise, indolent and in Your president has received many letters du those discouraged and weak in the faith that unprofitable business, and asking in the strictest the time employed in their management wou financially in other less stinging pursuits. I st the convention, that we are all too prone to en with much mystery as to the "pure stock," pec hives and frames and moth-traps, and bugmoney-making by those who, for the love of bee severely alone in its simplicity and ind instinct are the allies God has given that wonc insect, and when man crosses their pathway wi result must be fatal. I will be understood as r extremists in this matter. Less of artificial proling, less of fancy and extravagantly-built hives, with parlors and hecatombs and ante-chambers, and less of prying into hives to satisfy. the curiosity to see the queen and the dear, lovely little egg and the brood, etc., would, in my judgment, return many fold advantages to the apiarian. During the present severe winter there are those who uncover their hives and with a stick at long range stir up the bees to find out, as they inform you, whether their bees would be ready to do big work in the coming May. Others have drawn up a movable frame, crowded with bees, to find out if the dear creatures had enough honey to feed upon, and then turn it over and over to see that darling queen—and the thermometer down to zero. Is it any wonder that those bees who survive being poked to death are not all'frozen and lying on the floor of the hive an inanimate insect? Would it be sacrilege to suggest that Father Adam might have done better than to have transmitted to posterity such mountebanks of humanity?

In leaving this pen portrait of a very unworthy apiculturist, will you pardon your president in a brief description of a simply constructed hive made many years ago by Townley, of Cincinnati, and in doing so I would not be understood as depreciating the Langstroth, Quinby and other excellent hives. The Townley hive was made of two-inch plank, well seasoned. There were moveable frames, over which were the section boxes, two ventilators to close or open as the temperature on the inside required. In the rear a large glass with an outside door, which, when opened, the bees could be distinctly seen at their work, without being jarred or disturbed. The joints were all close and air-tight, so that in the summer, on the inside, there was not too great a heat, and in the winter the temperature was never below freezing, although the hives were left on the summer stands the year round. My own experience has satisfied me that after determining that they have a sufficiency of food for the winter and that the moth are not among the combs, to let the bee alone. The opening should be closed up, so that but one bee can pass in or out. The surplus boxes should be removed and the chaff cushions overlaid with carpet introduced. Keep your ventilators partially open and wrap around each hive a plentiful quantity of straw and old carpets around the whole, and I am authorized to say that in no instance have I known the colonies not to do well. Toward spring, as the warmer weather approaches, I feed plentifully at the opening with syrup made from a sugar, perfumed slightly with anise, giving the bees, day and night, all they can carry into the hive on the lower frames. Then when the surplus boxes are introduced the bees bring in and fill them with the orchard and

BEE KEEPERS.

om honey. The fall flower honey I leave to remselves as a winter supply.

character and comeliness of your packages, per r closest attention, that they may be neatly ar ed, and so presentable for the customer, as to co commendation and the best market price. e been given in the bee journals, and yet, m the apiarian, as to how far these may be a succi there is no table condiment so delightful to e to the taste, as honey, in uniform and roundlyages. I would recommend that your secretary obtain the names and the postoffice address (n the state of Indiana, requesting from them the colonies, amount of honey produced, kind of hi her information as would be useful to the State this end, that the secretary draw his warran untersigned by the president, for such sums ated circulars, postage, papers, etc., necessary 1 трове.

es for its government. Experience and more a demonstrated that many of the provisions as to the requirements of this body. I sugges se appointed, and authorized, to take the matte ideration, and report the same to this conven

persuaded, gentlemen, to call your attention to ing an apiculture department, at every annual St. ty be exhibited apiarian supplies, hives, honey p se, strained and in comb, etc., that a greater kened among the farmers of the State. The w i our farmers ought to be apiarians. The wor I to them, and the profits arising from their har greater than any other employment they can the farm. I can not but believe that we owe i erests of our state, that circulars and informs the bee and its management should be scatter r the State, that the farmer element, the yeom may be convinced and persuaded of the gre velopment at their hands. If the suggestion approval, let a committee be appointed to ma rangements with the State Agricultural Board, etary, Mr. Heron, for such space and accommo the wants of the association, and also that the

sary steps be inaugurated to diffuse bee keeping intellievery county and precinct of our great commonwealth.

As to the present status of the association financially, I to the annual report of Hon. Isaac N. Cotton, treasurer the report of your secretary, Mr. Frank Daugherty. The not in debt, and have a small balance to their credit in the There is, in the opinion of some of the membership, a nec a change in the price of initiation, or rather an increase cents to \$1 per annum. It is urged that a need will arise tional funds to pay expenses of new projects that may be by you, and which are deemed necessary for the augment furtherance of the interests of the society. I trust such a be taken in this regard as will facilitate this end.

I am also impressed that profitable advantages would be by organizations of county societies in every portion of from which auxiliaries the State organization would rece ble statistics and other matter beneficial to the apicultural of Indiana. May I be permitted to urge upon you the of taking such steps as will bring about these results?

In closing this hastily prepared address, I must refer w ure to the very valuable services rendered the apiary int your secretary. His time has been largely contributed t vancement and development of the busy bee in Indiana, a dially recommend his re-election to the trust he has so con bly and ably filled during the past year.

With many thanks for the honor I have enjoyed at yo I earnestly invoke your continuity and faithfulness in a p which should be, as I believe it is, the pride of our lives.

After the reading of the address the convention went election of officers, resulting as follows: President, Dr. J. Liztown, Hendricks county; secretary, Frank L. Daugh rion county; treasurer, Isaac N. Cotton, Traders' Poin county.

The following essay, prepared by Rev. M. Mahin, Hu Indiana, was read by the secretary:

MOVING BEES BY RAILROAD.

It is often necessary to move bees by railroad, and it know the best way to do it. Having had a somewhat exte varied experience in the matter, I can, perhaps, give infithat may save some one from serious loss.

I have often had occasion to move bees in box hives, as never met with the slightest loss in doing so. I have foll plan recommended in King's "Bee Keepers' Text-Book." the hive bottom upwards, I have tacked coffee sac over the mouth of it, holding the sacking or carp pieces of lath. The hive can then be placed in an e tom upwards, and carried with perfect safety. I shipping box hives in freight trains. If the bees are more than a few hours, wire cloth must be used in or sacking, as the bees would cut through the lat There is no danger that they will smother, unleashould be very warm, and the hive very full of bees be safe to move a hive having new combs full o weather, or in any weather.

But we are not so much concerned with movit hives, as in those having movable frames. In shippi things need to be attended to:

- 1. They must be carefully shut in, so that not a ! A very few loose bees can quickly demoralize a who road hands and a few draymen thrown in.
- 2. The frames must be secured so that they will out of their places. This can best be done by driving fine nail through each end of the top bar of every f the hive. But some one may ask "What will you d while that is being done?" That is easily managed know how. Have made a lot of wooden strips the top bars of the frames, and large enough to fit down With these strips pressed down between the frame effectually prevented from coming out at the top of t a very simple and convenient device for closing t the hive. I take a piece of inch board as long as ma (for the Langstroth hive it would have to be just width of the hive inside of the portico,) and 11 inch each end of this I saw in, about an inch, and cut out tween the saw cuts, and then take a strip of the sa inch wide, and one-half inch thick, cut out a piece t as the notch in the other, and half way through it. notched edge of the larger piece. When nailed tog block having an opening under one side, when la. face, half an inch high, and six or eight inches le opening in the top, which is one inch wide, and six of long, I tack wire cloth. When this is placed agains to the hive, the hive is effectually closed, and yet the ventilation. The device is easily and cheaply made... other way so convenient for shutting bees in the hivpose. There should be a hole through each end through which a nail may be passed, and driven sli

alighting board to keep it in place. When you have put the strips between the top bars of the frame, and have tacked the shutting in block to the front of the hive, you can proceed to fasten the ends of the frames at your leisure. The heads of the nails should be left out, so that they may be easily pulled out with a claw-tool.

When the ends of the frames have been tacked fast, the strips may be removed, or so many of them as may be necessary to give free ventilation. Now have a honey board with as many as three inch holes in it, covered with wire cloth, and nail it over the frames, remove the block that shuts the bees in, and let them fly until evening. Then when all are in, nail your block on the entrance of the hive, and it is ready to ship.

- 3. The third thing necessary is plenty of ventilation, and as that has been provided for, in describing the manner of shutting the bees in, nothing more need be said about it.
- 4. Care should be taken that the combs shall not be heavy with honey. If they contain much honey, it should be extracted, even if it has to be fed back.
- 5. The hives should be so placed that the combs shall be lengthwise of the car. This is especially important, if they are to be shipped as freight, for in switching cars, they get some awful jolts, that would knock combs at right angles with direction of the track, clear out of the frames. Shipped by express, it does not matter how the hives stand.
- 6. If many hives are to be shipped together, and the weather is warm, they should, by all means, be placed in a stock car, that the animal heat may not injure them. In 1878, I shipped over forty hives, from New Castle to Logansport, a distance of eighty miles, in a stock car, and all went through in perfect order. In 1880, I shipped forty-seven hives, from Logansport to Huntington, on a warm April day, in a box car, left only partly open, and they were badly damaged, as, in about a dozen hives, the combs were more or less broken, and in some the bees were nearly all dead. In some hives in which the combs were not broken, and there were but few dead bees, the brood was all killed, and after some days dragged out. They were damaged more than they otherwise would have been, because there had been an unusual flow of honey, for April, and the honey had not been extracted. I have shipped bees at all seasons of the year, from March until late in the summer, and never had any misfortune befall them, except in the one case above narrated.

The paper was discussed by several members. "Wintering Bees," the next question, was then taken up.

Mr. Benham packed in straw; did not think the well protected.

Mr. Fells used large boxes around the hives, well leaves, and had succeeded beyond his expectations.

The Secretary, in wintering, removed all combs the not cover; thought five or six combs a plenty where to give those containing sufficient stores. Placed st top of the frames to keep the cloth from settling dov bees to cross from one frame to another. Used boards on the sides with pieces of carpet, blankets chaff cushion on top. Thought almost as much de fall management of bees for safe wintering, as packified that young bees were almost a necessity; they we to withstand the cold and confinement than old, half - Mr. Davis said his bees had been flying out, leaving at a time, all winter, until some of the hives had been depopulated, with very few dead bees around the en

Mr. Fells thought old bees the cause, with which and Mr. Brown agreed.

The Secretary did not think that this trouble con attributed to old bees; he believed that there was disc which we were not able to discuss.

Mr. Raab thought old bees the principal cause, but the secretary, that there was still a disease at work a

The discussion was further indulged in until quite motion of Mr. Belman, the meeting adjourned untinext day.

The meeting of the second day was called to order with President Orear in the chair. After the usual allowing of bills, etc., the convention proceeded to the various subjects, Albino bees being the first.

Mr. Brown believed them to be a distinct race, whi the convention decided them to be a cross from the

Introducing virgin queens came next. A majorit bers seemed to think the best plan was to let them entrance, taking their chances, believing the loss greater than in introducing queen cells.

Hiving swarms was discussed at some length.

The secretary was then called on to describe his meandy for bees, some samples of which seemed to men as well as bees, from the manner in which it di

The manner of making was described as follows: ficient to make what candy you need in a tin-pan w water to dissolve the sugar nicely, more will do n

must necessarily be evaporated again by boiling. Care taken that it does not burn, as burnt sugar is fatal to bee the syrup to boil until it begins to wax; test by dropping a time into cold water. As soon as sufficiently cooked, ren the fire; stir until the mass begins to turn white—to then pour into a plate to cool. If preferred, the candy car directly in a broad frame, to hang in the hive, by laying frame flat on the table, or a flat surface, holding the f down to keep the warm candy from running under it as poured in. We prefer to have ours in chunks or proper we can then give only what is needed.

.Various other interesting subjects were then discussed length, when the question of vice president was called a some discussion it was decided to nominate a vice preseach county, instead of for each congressional district, as h The list not being completed, the executive committees structed to fill vacancies and notify the appointees.

Mr. I. N. Cotton, being a member of the Legislature, would be pleased to recommend any legislation for the of the association or the bee-keeping interest of the Stathing could be done, and, at his suggestion, a committee consisting of Mesers. Daugherty, Schofield and Shaw, was a to look up the matter, with power to act, in connection Cotton.

G. J. Brown, Anderson, Indiana, read "Bees and Bee-ke The secretary was instructed to have constitution an printed, sending one copy to each member of the society sociation, by resolution, returned a vote of thanks to Heron, of the State Board, the Board of Agriculture and papers for favors received.

There were on exhibition many samples of implement ern bee culture, among which were two extractors and kn C. F. Muth, Cincinnati, Ohio, and G. P. McDougall, this cit knife and smokers, from Bingham & Hetherington, Otse; gan; Quinby's New Smoker and book, from L. C. Root & Mohawk, New York; A B C of Bee Culture, and Cook's I the Apiary, from the Farmer. The secretary also had t showing the different styles of taking comb honey, the styles of sections, queen cages, candy, etc., all of which w admired by the members.

The convention adjourned to meet at the call of the committee. Frank L. Daugherty, &

TILE MAKERS

The Indiana Tile Makers' Association he annual meeting, in the rooms of the State I December I and 2, 1880, President J. T. Stringsiding, and J. J. Billingsley, of Indianapolis, a hundred and twenty-five members were preservisitors from adjoining States.

This is the pioneer association of the kind i has been imitated in other States, and it is que association of any kind has been organized her more practical benefit to the State at large, a wealth. The association does not confine its (ture of tile, but through its influence, by essay onstration, prove the importance of drainage in fact, reduces the business to a science, and influence of the Board of Agriculture, and t farming community, it was made part of th days of the organization, that no combination nection with the State Tile Makers' Association trol the price of tile. This feature has, n towards its success and influence, which has of a special monthly, "The Drainage Journs the demand for such information. The tile n business, subscribe for the Journal, fifty to five and gratuitously distribute them among the thus becoming public benefactors. There as and eighty-seven tile manufactories in India other State, with corresponding benefits. Th last convention are published in full in the from which we copy the following address on

BENEFITS OF FARM DRAINAGE.

BY PRESIDENT O. A. BURGESS, LL D., OF BUTLER UNIVEL

Mr. President and Gentlemen of the Association:

Any man who teaches his fellow-men how to produce a bushel of corn to the acre, one more apple to the tree, or ho vent a single disease to which man or beast is incident, is a to his race. If this should seem at first blush a narrow basis to rest so proud a title as benefactor, we have but to estimate total of the increase in production it would cause on the o and of happiness on the other, to feel ourselves fully justificassertion. Benefaction to the race indeed rest primarily beginnings. The discovery of the circulation of the blood of the small-pox virus, modified for vaccination; the distinct steam-power, the telegraph, the invention of spinn sewing machines, are among the benefactions to the hum but not more so than will be the well directed efforts of the or associations of farmers who can accomplish what I indicated.

As I understand the objects of this association, you have no less grand results. You intend, by a judicious use of drainage, both to increase the productive force of the soil to the sum of human happiness by decreasing liability to d both man and beast. This will lead me to discuss in your some of

The Benefits of Drainage.

Nothing is probably better understood among farmers trule, that wet soil is a cold soil. If a wet soil is a cold soil, simply because it is wet, it is very easy logic to say—dry the it will become warm. This, too, is always true in the case g drain a soil well, or rather to put it in condition of cons drainage, is, of course, the remedy for the wet and cold cold seems strange that so simple a process, though known a ticed centuries ago to a very limited extent, is but very claiming general attention, and being reduced to somethin practical and scientific basis.

Swamps, indeed, and stagnant pools and ponds of water necessity, been carried away through drains, or more open ditches. But it has been reserved for a comparatiday to successfully apply a system of tile drainage to alclasses and conditions of soil. st condition of the soil is, however, only a part of the probwet soil is also a difficult soil to manage on account of the dition to which it is always liable under a hot sun. This t less friable, requires a vastly greater expenditure of labor to bring it into good farming condition, and produces less or grasses after all the labor has been expended.

soil by under-drainage is also, therefore, to remedy at one these difficulties, for a warm dry soil will seldom or ever is more productive than the cold and wet.

is a question of practical science, let us briefly examine a le laws on which the facts I have stated rest, and by which is mentioned are brought about.

It is a well known fact in science that water is a powerful
of heat. This being true, all soils having, for a portion of
n, large quantities of surface water, must, of necessity, be
of a large proportion of the heat of the sun's rays, they
iated by the water instead of being absorbed by the soil,
be the case, and as must be before the soil will be warm
of touch and quicken the germ-life of the seed sown or
Heat is one of the main conditions of life; and while it
e to destroy life by overheating, it is equally certain that
eight ype of life can either be produced, or after producinued, without a regular and constant surply of warmth or

But pools and surface water are not alone the enemies of on. It is also a well known fact in science that evaporation cold. Take the simple process of making ice cream, a . easily produced in the suns of July as in the frosts of De-This is done by the use of the well known law of sudden evaporation carried on by the column of ice and salt oute column of cream, and by which the heat is withdrawn cream to so great an extent as to produce ice. I remema boy, of seeing a newspaper statement to the effect that heet be wrapped around a jug or tin vessel filled with d the vessel placed in the hot sun—the hotter the better, stated—the water in the vessel would be kept cooler than hade or hay-stack could keep it. Without asking after the y I tried the experiment and found it true. The philosow simple enough. The heat of the sun upon the wet sheet rapid evaporation, thus withdrawing the warmth from within, for as fast as heat is withdrawn from any body is to another, the heat will pass from the other in order to he equilibrium.

-AGR. REPORT.

It is not difficult, therefore, to see how certainly a wet soil must be a cold one, since under the summer sun there must take place a constant and rapid evaporation of the surface water of the soil and a corresponding cooling of the surface must take place. When evaporation has progressed until the absorbent power of the earth is greater than the sun's rays, or so to speak, until the pores of the surface are closed, then commences the baking process so well known to farmers and so difficult to manage. Underdrainage is the simple and certain remedy for these evils, since by removing and keeping removed the surface water the soil becomes both dry and warm, which renders it also more friable, and in every sense easier to cultivate.

Third. Wet lands waste the manure, by not allowing ready absorption, the valuable parts of the manure frequently pass off in vapor, and are carried by the winds to enrich your neighbor's soil, who, by underdrainage, reaps the benefit of your labor as well as his own.

Fourth. There is also another method by which underdrainage changes the temperature and condition of the soil. The soil, as just shown, having been rendered more friable and porous, by carrying off the surface water, it is also in condition to allow the rainfall to pass easily and quickly through from the surface to the drain below. In this passage of the rain through soil and subsoil, the heat or warmth in rain is carried downward and absorbed by the soil or sub-soil. As this absorbent force is always more effective in the ratio of the porousness of the soil, it follows that all the warmth of a summer's rain, instead of being wasted by radiation and evaporation, may, by a judicious system of tile drainage, be stored away in the soil below, and reappear in the increased quantities and improved qualities of the grains, grasses and fruits to reward and bless the husbandman for his toil.

Fifth. Well-drained lands will stand a drought better than wet lands. This will be apparent, when it is remembered that, during a large part of the season, moisture is supplied to the roots of growing crops by capillary attraction. In a hard, baked soil, this process is arrested, and thus the supply of moisture necessary for growth is cut off. Only a well-pulverized, porous soil, can give free play to the law of capillary attraction.

Sixth. Proper underdraining, by keeping a warm, dry surface, will prevent, to a great extent, if not entirely, that thing so fatal to some crops, called frost-upheaval.

Seventh. Experiments have shown that the temperature of fields lying side by side has been changed at a depth of 7 inches from 8° to 15° F. in favor of the one drained, and in the time of maturing

TILE MAKERS.

both grain and fruits, of from ten to twelve days. In this way wet, cold, baked soils been transformed into dry, warm, peoils, their productive power greatly increased, and at a mucexpenditure of time and money.

Let us now observe some of the practical and valuable gained: (a) security from early frosts; (b) the saving of labe money in the management of the soil; (c) in increase in the ucts of the soil; (d) by saving all parts of the manure, a riche (e) by early maturity of crops, better crops; (f) less liability (fering by drought; (g) and less liability, especially in the case of ter wheat, of destruction of crop by the upheavals by spring

Thus far I have discussed the question before us specially reference to grains and fruits. What I have said, however apply with equal force to grasses. Wet, cold land, whether us pastures or meadows, will produce coarse grasses, mixed with and often mosses. The grasses produced on such lands ar only coarse in texture, but correspondingly lacking in nutri That the flesh-fiber, or muscle that we call food, and eat unde names of beef, mutton, pork, etc., depends very largely on th given to animals while fattening, is a well known and long lished fact; but this has been related, unfortunately, to the time set apart to "stall and fat the ox." A little observation show, however, that in order to have a fine quality of beef and ton for food, the ox and the sheep must be furnished with fibered, nourishing feed, long before the special time for "stall feed "comes. Indeed, there should no such time come, and it not, for the production of the sweetest and most nutritious a food, if grasses of the finest fiber and fullest of nutriment be a grown in pasture and meadow.

In addition to the better quality of grasses produced by u drainage, the health of the animal is also largely improved. are specially liable to diseases of both head and hoof.

It is now a well-known fact that domestic animals are subject many of the same diseases which affect man. I do not see this should not be so. Animal nature, in some respects, is su tially the same, whether it belong to man or beast. Other to therefore, being equal, I see no reason why diseases should not similar. Whatever improvement can be made in the condition the soil to guard against the diseases in beast, will also guard against of the same diseases in man.

But more of the health question hereafter. I wish here sim emphasize the fact that dry, warm, healthful lands are not necessary to the production of grasses of a fine fiber, full of a ment, but equally necessary to the production of fine, large, he cattle and sheep; and that, as an economic measure, it will find its justification and reward in the increased value of these animals, whether for the market or our own table use.

A few other practical suggestions now arise, upon which I shall offer a mere suggestion as your own observation and experience will serve you far better than anything I can say.

The first relates to the kinds of land that should be drained. In a generally level country, my own observation is that one can drain to advantage any soil. The clay soil, of course, offers the most serious objections, and yet I apprehend the trouble with clay soil, lies not so much with the failure of the drain as with the attempt to handle the soil too soon after a rain. Clay, for reasons very obvious, needs a longer time to drain than soil of a less compact character. If the plow be put in too soon after a rain, a kind of a paste is formed, which will be certain to become baked as soon as the sun shines hotly upon it. A little waiting, however, and it will be found that the water will make its way to the drain, and the clay become comparatively warm and friable.

The depth and distance apart at which the lines of tile should be laid, as well as the size of the tile, are all questions of importance, but questions not to be settled in any very dogmatic manner. General observation and experiment, so far, seem to assert that quite a depth—say four feet—is desirable, and the lines of tile tolerably close to each other. These are questions, however, it seems to me, that must be settled by the general condition and surroundings of the land to be drained. One thing I may state that is quite apparent: it is that the final outlet of drainage will largely modify all these questions. If that outlet be a large and quick discharge, and if the several lines of tile leading to it are of quick and regular descent, then will each line of tile draw a greater distance, and therefore fewer lines will be needed. If the land in general be quite level, and all outlets sluggish, each particular line of tile will carry off less water, and will drain a correspondingly less area. All in all, actual experiments are the best teachers on points like these, and experiments that are not costly, and when successful, yield rich fruits, can be carried on with patience and energy.

Aside from the advantages arising from, and the interests fostered by, your association, thus far stated, I must not fail to note the great economic values, in part, or in whole, created by you. I refer to the stimulus added to the incentive genius of our country, and the facilities afforded thereby to make your work swift, easy and effective.

It is said "the Yankee not only makes the thing, but makes the machine that makes it." Even so; for no sooner did the attention

TILE MAKERS.

fairly addressed to the subject of tile and d inventors were at work to produce the mach could be carried on. You have thus becare new industry, and have thereby made a resources of the country.

ken from that admirable collection of State ett, will serve to show something of the value windustry: "In Indiana, alone, there are tents for the manufacture of tile. These em 500,000. They use \$100,000 worth of raw ver \$600,000 worth of manufactured mate),000 for wages."

his shows but the beginning of an industry ake first rank among the productive forc yout any immediate danger of a lack of room nut 22,000,000 of acres. Only about one ha t in a state of cultivation. Of the millions u e to say that not one half have yet reached aximum productive force. The proper u drains below, would soon double the air roductions of the State. Add to these, the of acres not yet touched by the plow, an ndiana is an empire in herself, and capat ir the world. How much of this shall be real ow unturned acres shall yield to the ax and eath-breeding awamps and stagnant pools ense for the altar of the farmer's devotions; erness shall yet be fragrant, and blossom a argely on you, gentiemen, and your and kin

without a word further upon a subject alr

The Question of Health for Man.

iply draining lands to add to the quantity ops, or to place your lands in a condition is cossible expenditure of time and means. I commendable objects, and might well er constant attention. But you do more than fined has gained a partial, if not entire, immises; and every farmer who builds him a hand drink and repose "under his own vine ed land, takes thereby an extended lease of the happiness and health of wife and chilitans in different parts of our country estimates."

that from one-fourth to one-third of all human diseases arise from a lack of proper drainage. Here, in the west, we know full well how certainly ague and fever, chills, billious and typhoid types of fever, and malarial types of disease in general, follow in the wake of miasmatic vapors, exhaling from pools and swamps and excess of surface water.

If, therefore, gentlemen, while you are enriching your lands and adding to the general prosperity and wealth of our great State, you shall also take away the sources of disease and oftentimes death, you will have reduced farming to a science that will deserve to rank among the learned professions, will have added to the sum of human happiness, and will deserve, as you will receive, the benedictions of all who share your generous labors or enjoy the fruits of your noble toil. I bid you God-speed in a work that strives for the attainment of such grand ends.

FISH CULTURE.

The encouragement given to fish culture by the General Assily of the State of Indians, at their recent session, by the enactm is a law creating the office of Fish Commissioner, and appropriate make for that purpose, has awakened an interest in that branch idustry, and information on the subject is sought for, as ne efore. Hence we present herewith some articles from the high athority on the subject, gained by practical experience in fish oure, to aid those who are disposed to embark in this profitable ileasant business.

It is a conceded fact that Indiana, with the numerous ponds is northern part of the State and sink-holes in the southern p id well watered by rivers and streams, has equal, if not super cilities for fish culture to any other State.

FISH CULTURE.*

BY 8ETH GREEN. ROCHESTER, NEW YORK.

Fish can be raised with less trouble and cost than other articles. The lakes and rivers are full of animal and vegetable unizations upon which fish can live, now wasted, but which sho sutilized by stocking these waters with suitable varieties. The not only an abundance of food, but it is also true that fish ness food to produce a given amount of flesh than is required rds or quadrupeds. The amount which makes a pound of pouls beef will make many pounds of fish; this is owing to the last they are cold-blooded and usually inactive animals. When we them in water they are in motion because they see us; at tirely go long distances in search of breeding places, but they are

^{*} From the Journal of the American Agricultural Association.

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a rule, quite torpid in their habits. Animal action consumes the system. For this reason, those who wish to fatten cattle or poultry keep them confined. Animal heat is also a great consumer of food, and a large share of all that is eaten by warm-blooded animals is needed to maintain this vital heat. As fish are cold-blooded, they need but little food for this purpose, and most they take goes to make bulk and weight. The fact that this class of animals will live a long time without eating is familiar to all. There is but little waste to their system in any way. We frequently see birds and fishes kept in the same rooms; while the first are restless and need constant care and feeding, and frequent cleansing of their cages, the latter are almost motionless unless disturbed, and as the water in which they are kept is usually clear and fresh, it has in it but little food. It may be true that a pound of fish does not contain as much nourishment as a pound of beef; but the difference is by no means as great as the difference in cost of production. For some purposes of health it is much more valuable than a like weight of other food. Less care and labor are needed to raise fish than to raise other animals, or even to raise vegetables. We must give close attention to our flocks and herds throughout the year, and we must toil through a long season in our fields to make vegetables grow. Lakes and rivers are said to be like fields prepared for food. Fish only need our help in one way. At breeding times their eggs are mostly destroyed by numerous enemies, and but few are hatched.

By artificial means, at a trifling cost, nearly all the eggs can be saved and vast numbers of young can be produced.

While on this analogy it may be suggested that rotation of crops may be as advantageously introduced in pisciculture as in agriculture. In a portion of France, where the land is low and can be overflowed at pleasure by a system of dyking, crops of grain and eels are alternated, the latter being the most profitable; but this is only the germ of the true principle. When one sort of root or grain or vegetable is repeated on the same land it is found that the soil is exhausted of its food, while its enemies are augmented in number.

Incidentally, the same thing occurs with fish when they are kept in one locality. They use up their food and increase the list of their foes. As soon as this happens they suffer and should be supplanted by a different species, living on different food and having a totally different class of enemies. Wherever this has been done the effect has been surprising, the new species increasing enormously for the first few years, then meeting the fate of their predecessors. It is a curious fact that the stomachs of fish are so often found to be entirely empty of food, and the migratory varieties seem hardly-to

i at all while preparing to spawn. This would imply either that y digest very rapidly or can go a long time without nutriment, I probably both of these deductions are true. Heat and motion the main consumers of food, for animal bodies are physically chines which must be supplied with fuel if motion is to be gented, and will wear out with friction unless the waste is restored. nan or a horse can only perform his quota of work if his body horoughly nourished, and on the other hand, neither needs nor digest his full amount of food unless he works. The terrestrial mals are warm-blooded and active, many of them in their natural e getting their food by the chase, whereas fish are cold-blooded although occasionally making long journeys, are ordinarily et.

be following points upon fish culture seem to be established st.—Fish culture, extending to every desirable variety of fish, is irely practicable. Second.—It may, under proper management, made profitable to the producer, as much so or more than the tivation of land or of land animals, and on similar conditions. rd.—It may furnish to all classes an abundance of cheap and the st nutritious and healthful food. Fourth.—It is absolutely necry, in order to the preservation of the fish in the country from I destruction. Fifth.—Every section of our country, and all its ks, rivers, lakes and sea coasts are available for this care being en, that the right kinds of fish be selected for the waters into ch they are placed, observing latitude, climate, temperature and lity of water. Sixth—It may be carried on by stocking waters a young fish brought from hatching establishments, or by obing eggs for hatching, and both eggs and young fish may be asported safely to almost any distance. Seventh.—The money ital required for these operations is small; skill, care, patience, severance and common sense, the same as in other business, bethe chief requisites. Eighth.—Individual enterprise is alone icient for success, though State action is desirable; indeed, legtion is essential, if not to foster, at least to protect those engaged be business of fish culture.

E PROPAGATION OF VARIOUS KINDS OF FISH, AND THE WATERS IN WHICH THEY WILL THRIVE.

SETH GREEN IN NEW YORK TRIBUNE.]

lany people seem to entertain the idea that our game fish are food fish, and that the work of the Fish Commissioners has been confined almost exclusively to the propagation and inc game fish. The fact of the matter is that our better class water food fish is composed principally of game fish.

It costs no more to cultivate a good variety of fish than it inferior one, and I am sure the people would rather live than liver, especially when one costs no more than the othe

Some waters are not calculated to produce the best varifish, and it is therefore impossible to stock such waters we thing but the more common kinds. For instance, some write me that they have a small lake in their vicinity, permile or two long, and proportionately wide, principally bottom, and containing flags and pond lilies, and they wish it with black bass.

My reply is that black base will not do well in such for the reason that it does not answer the requirements nature. They require clear, bright water, with a rocky both crawfish for food; also a larger territory for their increaswater suitable for them they multiply rapidly. They thrive large, clear lakes and swift rocky rivers.

For such waters as described above I would recommend perch and bull heads, and if it contained both of these varie it was desired to put in another kind, I would advise Oswe a fish closely resembling the black bass in appearance, but of greatly in habits and other particulars.

I am frequently called upon to furnish salmon trout f lakes, rivers and creeks. I have tried the experiment mar of putting them in such waters, but they have invariably i thrive. The only waters they do well in are clear water lake a depth of not less than one hundred feet. They are strictly lake fish. In shallow lakes the water gets too warm for the unless they can have access to the deep cold water beyo penetrating heat of the sun, they will surely die.

CARP CULTURE.

The introduction of the German carp in this country is a of special interest and importance to all inland communitation have experienced a dearth of fish food, for the countries in either artificial or natural ponds, having mud toms, with almost no care at all.

The special merit of the carp lies in the fact of its slugg and the ease with which it is kept in very limited inclosur-

FISH CULTURE.

ing a vegetable feeder, and its general inoffensiveness. Troblack bass require a supply of animal food for their sustenal growth, but carp, while not disdaining flies, worms and the thrive on the succulent roots, leaves of aquatic plants an seeds. They also readily feed upon corn, grain, bread, root raw or boiled, and, indeed, any vegetable refuse whatever, thrive best in ponds with muddy bottoms, and whenever the becomes cold or frozen over at the surface, the fish bury their in the mud, congregating in lots of from fifty to one hundr constituting what is called in Germany "kettles." It is im that they should not be disturbed under such circumstant course, while hibernating in this way, they are not feeding, ald it is said they do not lose appreciably in weight. In the southern regions, where the waters do not freeze, they will less feed throughout the year, and make a more rapid grow

As regards the best plants for a carp pond, the United Fish Commissioner mentions the ordinary pond weeds—dock or pend lily—and, indeed, any of the kinds that grow water, with leaves floating upon the surface, duckweed and number. Those producing seed, like wild rice, are especisirable. In large ponds, it may not be necessary to give food, but in restricted inclosures, they may be fed with the of the kitchen, garden, leaves of cabbage, lettuce, hominy an substances. When grain is fed to fish, it is better boiled, plan is to have the ponds arranged so that the water can be drat will, leaving all the fish collected in a small basin near the This is for the convenience of assorting the fish and selectinas may be required elsewhere.

Carp spawn in May and June, and, under some circumthroughout the entire summer. They are very prolific, a eggs of the female adhere tenaciously to whatever they tou this reason, it is important that a new pond be provided wit ing weeds for such attachment. The eggs hatch out in a fe and the young grow very rapidly. A Nevada exchange, in i tion of the prolificness of carp, cites the experience of Mr. I of Stockton, who, from seventeen young carp, gained in or 5,000 carp, from five to seven inches long. His pond was feet in diameter and six feet long. The bottom and sides pond were cemented, to render water-tight. The water w plied from a well seventy feet deep; it was pumped into the by means of a windmill. The cost of this pond was \$100. F who feel interested in growing carp, can, of course, raise would be required for family use in a much smaller pond th one described .- The New York Weekly World.

FISH CULTURE.

It may surprise and pique our readers to inform then acre of water well stocked with fish will produce as much an acre of land. The process of stocking our waters we being carried on by various bodies in various ways. Notab these is the work done by the United States vessel, Fi. This has a capacity for hatching 20,000,000 young shad at and, as the hatching process occupies about five days, the is about 120,000,000 a month. The intention was to come the Georgia coast in February and finish with the Susque June, giving four months to the business, which would I duced at least 400,000,000 young shad, enough to stock the c This plan was frustrated by the unusual lateness of the which put off operations till the middle of April.

The process is curious but simple. When the immens drawn ashore, a skillful man called a "spawner" wades alo deep in fish, selecting roe shad that are ripe. These are the spawn pans, and the sides gently but firmly stroked thumb and fore-finger, much after the fashion of milking. is called "stripping." The roe, if ripe, yields the spawn f the result is several spoonfuls of eggs, each about the size head. A buck shad is then produced and milked in the as ner. The milt is made to flow into the pan until about a is vielded. Then a little water is added and the pan shakuntil the milt has touched all the eggs. In a few moments of eggs swell to twice their size, each egg becoming a tig globule. In this business nature is beaten at her own gar nature, it is said, not more than one-third of the eggs are whereas by this process scarcely any fail of being impregi ripe shad yields from 20,000 to 40,000 eggs, although the n said to have gone up to 70,000. The pans with the spawn. aboard the ship and their contents gently poured into co with water. In these cones the proper temperature is m. and a gentle, aerated current kept up by force-pumps. cones the eggs are proof against untoward accident. Wi their native hatching grounds the eggs are subject to c current, washings, and sudden chill in the water, in the receptacle they are free from all adverse circumstances, (from the shoals of small fish that haunt the vicinity of the The result is that ninety per cent, of the hatched out, whereas in the natural manner, only one-thi eggs are impregnated and only one-fourth of these hatche

se of the fish ca The globe grows is an unmistaki hich they are ieir body, hangs they are in a cr y of the swarm s they are prote ntage of those are packed in ca States. A sha cones and fill the present facilitie he quantity of e l be produced to t of the hatchin atch along the . tch was increase stching. The n ad, the attention anish mackerel inte, the Fish H s for every day :

OUR FIBER INDUSTRIES.

BY CHARLES R. DODGE.

How to frame tariff laws to enable successful competition the old world, has been the study of political economists a tectionists for long years, and now the spectacle is presented view of a people trying to compete with themselves, or to more plainly, the older sections of the country are finding selves unable to compete with other sections where farming ducted by steam machinery, and upon the grandest scalcenter of wheat production is rapidly moving westward, year opens new farms in the far west, where capital, wit plows, headers and steam threshers, grows more grain ut farm than is produced in a whole county in the east, and at too, discouraging to the eastern agriculturist or western farmer. The center of wheat production, in twenty-eigh has traversed 430 miles of territory, from eastern Ohio to Illinois, and is still moving westward. The eastern farmer afford to grow wheat. Sheep and cattle, even, can be more bly produced in the west, and a "diversified agriculture" ge means growing what everybody else is growing, at bottom It should mean something else. Without discussing the me either free trade or protection, everybody knows that a doll to an American farmer is better for American agriculture send the same dollar out of the country. If our farmers : all grow wheat for foreign export, perhaps something else grown that now must be imported. Already farmers in the States are turning their attention to sugar-beet culture, capi ing supplied a market for this product; but beet-sugsorghum sugar are no less elements of national wealth t furnishing a home supply than are vegetable fibers. But filtivation is no new thing. It is an old industry—old as the c itself—which has only languished in late years through neglcauses of which can be readily explained.

OUR FIBER INDUSTRIES.

Early Flax Culture.

As early as 1629, flax was grown in Salem, Mass Samuel Cornhill, and in February, 1640, flax was General Court of Connecticut, to be sown by easserve seed. Later, flax culture was extended into a flaxseed was early exported to Great Britain. In that sixty wagon-loads of flax were received at Be surrounding country, for shipment. According son, the first flax-dressing machine used in this structed in 1753, by Hugh Orr, Bridgewater, Mass

Next to Cotton and Wool.

The flax industry of the United States stands t fiber products, although the production is far bel be. In 1850 nearly 7,700,000 pounds of raw flax we whole country; in 1860 there was a falling off c pounds; while in 1869, according to the censur duct arose to over 27,000,000. Of this quantity and Illinois produced over 87.5 per cent., Ohio round numbers, 17,000,000 of pounds, New Yorl amount of production. The present area in roughly estimated at 400,000 acres. There has b falling off in the Eastern States, but this has been up by the increased acreage in the west. The f Indiana, Wisconsin, Iowa and Kansas, had abou flax, in 1877. The 17,000,000 pounds produced in off 10,000,000 in one decade, the figures of 187 over 7,000,000 pounds, as the product of that y has been a falling off in lint, the seed figures th show an enormous increase, especially in Kan. 1869 Kansas produced 1,553 bushels of flaxseed, In 1877-78 their production amounted to about ! bushels respectively. The present census will in seed production, though it is doubtful if th great increase in the amount of lint produced. was grown in twenty-eight States, New Jersey, 1 tucky, Michigan, Minnesota, Oregon and Califor the States previously named, furnishing the great

The Foreign Supply

Is derived mainly from six or seven countries,: teen countries only being represented in the imp years. Since 1877, Russia has furnished by far t

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England coming next on the list, though doubtless a part of this is re-exportation. In 1879 Russia furnished 1,156 tons, valued at \$338,457. The remainder of our foreign supply was received as follows: From England, 613 tons; Scotland, 364 tons; Ireland, 299 tons; Netherlands, 35 tons; Belgium, 10 tons, and from our neighbors over the border, 458 tons of Canadian and Northwest Territory flax.

According to estimates of leading New York and Boston manufacturers the imports of 1879, for scutched flax, line and tow, amounted to almost seven millions of pounds, costing from \$300 to \$550 per ton. The total valuation of this import is \$969,451.

As has been stated, Russian flax largely supplies this demand. Dutch flax—at one time considered the most perfect flax in the market—is used only in small quantities, and Belgium furnishes a still smaller amount. Of Irish flax, 59,500 pounds were received at the port of Boston in 1879, together with 87,000 pounds from the Netherlands.

After reviewing the sources of our supply, domestic and foreign, the question of quality arises as an important factor in determining from whence the bulk of raw fiber must be received by our manufacturers. Naturally aiming to produce as high a standard of goods as can be made abroad, they will buy the best fiber in the different grades that can be obtained for the money. As regards our ability to produce flax in any quantity, there is no question; it must be up to a higher standard of quality than at present, however, if we wish to compete with that grown in the best flax producing countries of the old world. Flax culture in Russia has grown to be such an enormous industry, that a million acres of land, it is estimated, are required for the production of flax fiber alone, 80,000 tons of which on an average, have been exported for a series of years. The quality, doubtless, is not as high as in some other countries, but the flax is carefully graded by a government standard, by government officers, and its quality carefully designated; the fiber is put up in even lengths, and the manufacturer always knows just what he is buying. Here there is no one standard, each dealer or producer fixing it to suit his own ideas. The system of culture in this country is against high grade fiber. More strength is needed by improved methods of treatment, and more attention to evenness in length is absolutely essential. The majority of our farmers "haven't time" to grow good fiber—and it takes time and labor—preferring to follow a haphazard system of agriculture which can only give indifferent results.

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Foreign Methods.

The Irish and Dutch growers sow thick for fine fiber; the crop is carefully watched and studied that everything shall be done in just the right time, and this watchfulness and care commences with the very preparation of the soil and the selection of fertilizers. Rotation of crops is closely studied; the seed is most carefully selected, and after the plants have begun to show themselves they are kept free from weeds. The greatest care is exercised in harvesting the crop and in the steeping and rotting of the straw—the system of water-rotting always being pursued instead of the dew-rotting, as practiced in this country. Even at this stage the crop requires the closest attention; it must be taken from the steep pools at the proper time; it must be guarded from injury in drying and stacking, and finally care must be exercised in the separation of the lint from the woody portion or "shive." The wasteful system usually practiced with us would ruin the industry in any flax country in a few years.

In this country flax is grown largely for seed, which, of course, is sold to the oil factories. The straw is either burned or otherwise wasted, or is sold in limited quantities to such bagging factories as can find a market for their goods. The entire crop is, therefore, taken right out of the soil, so to speak, and nothing returned. The mineral elements extracted from the soil are contained in the seed and woody portions of the plant, while the fiber or lint takes its constituents from the air. Abroad, these important elements of fertility are returned to the soil in various ways. One of the most profitable ways in which the fertility is kept up, is the feeding of the oil cake to cattle, making at the same time beef, and fertilizing material of the highest value. The contents of the "steep pools" serves to irrigate the fields, and even the "shive" or waste portions after scutching are composted and returned to the land. Under such a practice, flax can not be called an exhaustive crop, as is claimed for it by some producers.

It is true, we have not so moist a climate as that in which the Irish and Dutch flax is produced, but we can, nevertheless, with proper care and the adoption of foreign methods, grow fine flax in many portions of the country. Oregon and Washington territories are especially adapted to the growth of superior flax, and even in New England, northern New York and the lake region, good results may be attained.

Waste of the Fiber.

In glancing at the figures of area given above, it may be suggested that four hundred thousand acres in flax must mean a pretty heavy

30—AGR. REPORT.

fiber production, in spite of all these drawbacks and deficiencies. What becomes of it all? The Western farmers themselves state that the great bulk of the crop, the product of thousands of acres, is wasted after the seed is removed. It is true that the plants as grown for seed make poor fiber, and it is even claimed that good fiber and good seed from the same plant is an impossibility. A double crop, if such it may be called, has been obtained, however, by pulling or harvesting when the fiber is in the best condition, allowing the seed to ripen afterwards upon the straw. If Western flax-straw, after the removal of the seed, is unfit for fine fiber, it is useful for the manufacture of tow for paper making, and, for coarse bagging, and the question may suggest itself: Why then is it wasted? To this, the Western manufacturer makes answer that it was not wasted until Congress, eight or nine years ago, took off, or greatly lessened the duty on jute butts, in consequence of which the flax bagging establishments—which, with hemp, furnished the greater part of the bagging in use ten years ago—were obliged to suspend operations. They ask for a higher rate of duty on jute butts, and promise to furnish from western flax, now grown for seed onlyall the bagging that can be used for cotton, wool and grain. They claim to be able to furnish it at the prices jute bagging now commands, and that, too, from a material now almost wholly wasted.

On the contrary, the jute manufacturer claims that it is true national economy to admit raw material free of duty in order to encourage manufacture at home, instead of importing from abroad. Then the Western farmer and flax-miller reply that if it is good to give employment to American labor in the manufacture of bagging, it is still better to give employment to American farm labor in producing the raw material. So evenly balanced are the forces in this conflict, that flax is still able to compete for a portion of the bagging used in baling the cotton crop. Through larger capital, with better organization and division of labor, the jute manufacture is successful and the flax-bagging industry depressed. The conflict is between the seaboard and the interior, between the large manufacturer on the one hand, and the small flax-miller and farmer on the other. Logically the flax men have the better position if they can make good the promise of a full and cheap supply; the jute men, however, have the advantage of having produced the supply.

Whether flax is, or not used for bagging, the

. Growing of Fine Flax

Is open to our farmers, and a good quality of fiber will find a market. Better methods of growth and "handling" however must be introduced before we can expect to compete with foreign producers. This may not be accomplished in one year, or in two or three, for skill and experience only come with practice, but the American farmer has intelligence on his side, and falling back upon his native energy, and inventive genius, is bound to have an advantage in competition with foreign low priced labor.

American dressed flax is used more or less in all kinds of manufactures, although the general verdict seems to be that goods from foreign fiber are in every way superior, and command the highest prices. Foreign flax of equal grade with American costs one-third more, and even Canadian flax brings a higher price from its better color, and "better handling" which renders it finer and softer to manipulate. A manufacturer of crash in Eastern Massachusetts, makes a difference of one-half cent per pound in favor of American flax, because it is better and stronger than the grades of Russian, generally used in his establishment. This would seem to show that the best American is only worth half a cent more than an inferior grade of Russian. The flax crop of 1879 was poor and the yield small, consequently there was more demand for the foreign product. Notwithstanding, the imports of 1879 show a falling off in value to the amount of several hundred thousand dollars, the imports of 1878 reaching considerably over a million dollars in value. This is accounted for through foreign depression, which caused our linen markets to be flooded with manufactures from abroad which were sold at the best price that could be obtained.

Our Native Hemp Supply

Is principally derived from Kentucky and Missouri, these States having produced it for a long period. As early as 1842, Kentucky produced over 15,000 tons of hemp. In 1850 the production was nearly 18,000 tons, and in the next ten years this amount was very nearly doubled, while in 1870 the product had fallen to 7,777 tons. Missouri in 1850 produced 16,000 tons; in 1860, 17,000 tons, and in 1870 but 2,800 tons, and in the same year, four other States: Tennessee, Pennsylvania, California and Illinois produced about two thousand tons more. Since 1870 the production of Kentucky has slightly increased, though at no time has it been over 8,000 tons. The present increase doubtless is much greater while in Illinois and some of the Western States producing only small quantities there will be a decided change in the figures of ten years ago.

The Foreign Hemp

Is principally derived from Russia, Italy furnishing a small quantity of a fine grade of fiber. An eastern manufacturer, of long

experience, in speaking of quality, states that American hemp is of greater flexibility than the Russian, consequently, cordage made from the latter stretches less, and has been generally preferred for stays and shroudings for a long time. On the contrary, Russian hemp can not be dressed so fine as the American and this, with the greater cheapness and equal strength of the latter, has almost driven Russian hemp from the market, very little of it having been used for some years past. The crop of 1879 was not sufficient for the demand and manufacturers have been compelled to again import largely of the Russian. Regarding the extent of the crop of 1880, I can give no figures but from the amount of seed planted last spring in Kentucky, and the area placed under cultivation, it must be considerably in excess of recent years. At one time it seemed as though the Kentucky farmers were going wild over hemp, as seed was purchased and ground rented at highest rates, with a prospect of large returns. The increase in area was due largely to the high prices of Kentucky hemp in the early part of the year, and perhaps to the published statements regarding the enormous demand that might be made upon hemp producers for material for twine to use in the grain-binding machines.

It is not likely that Kentucky, in the immediate future, will reach the production of past years. Hemp manufacture has declined in the State, and now hemp cultivation is extending to other portions of the country, particularly westward. The introduction of Manilla hemp, too, has had much to do with this falling off in production jute has also supplanted it, to a certain extent, in bagging manufacture, and to a slight degree for the manufacture of cordage for inland purposes.

Mr. John R. Proctor, of Frankfort, Ky., who has a thorough acquaintance with the hemp industry of his State, is of the opinion that there is a

Great Future for this Industry,

As there will be an increasing demand for hemp from year to year. It will, however, be a demand for a finer grade of hemp, for spinning into yarns, fine twine, and even crash and toweling, instead of bagging, as in former years. During the last year there has been a considerable demand for hemp twine for use in grain-binders, mentioned previously, iron and wire having advanced so materially as to make twine cheaper. Then, too, there are objections to the use of wire, which, with the cheapness of the fiber, may subsequently lead to the universal use of twine, creating a large demand for hemp or flax to supply this industry alone.

Whatever may be the future of hemp culture in this country, the same remarks that were made concerning flax will apply

OUR FIBER INDUSTRIES.

equally well here. The farmer who wishes to succeiber production coolly, with his eyes wide oper everything that will save him time and money and ducing the best results. The man who rushes p business, trusting only to luck and high prices, a because it is popular to do so, to use a homely exp burn his fingers for his pains. There is altogether

Too Much Carelessness

In American agriculture, but there is a good tire the "science of the thing" will be better understood to be thoroughly successful will be obliged to good things, and use his brains as well as his muscle. It has dawned we can grow flax and hemp for propractice gain experience and skill which will enable successfully with the old world.

Other Fibers.

The reader may ask "What about ramie and jute of which so much has been written from time t ramie, can be successfully cultivated, and, too, as State of New Jersey—and, furthermore, a machin in Newark that will strip the fiber from the stock economically. That is the present status of the rebrief. To find a market for the prepared fiber, how matter.

There is no market now, and no manufacturer s change his system of machinery with the present the hope of creating a demand for a larger quantity of Philadelphia, tells me that the woolen system se to the manufacture of ramie, and as woolen manufacture of ramie, and as woolen manufacture of the present. Perhaps the farmers the able to start the ball in motion by producing the quantity as will induce manufacturers to open Something has already been done in this direction. New Jersey, with a view to the encouragement of last season passed a bounty bill, by which the farmere every a premium for every ton of stalks and postuced. The bill not only includes ramie, but flator two other plants.

The question of India jute cultivation I am not cuss. That the plants will grow and flourish in th

has been demonstrated, but nothing has been done recently, looking towards its production as a source of revenue to farmer or planter, in the near future. There is a plant, however, known throughout the Western States, which can be grown with success, if farmers would turn their attention to it. I refer to the

Abutilon Avicennæ,

Which has been recently cultivated experimentally in New Jersey, under the name American Jute (which certainly is a misnomer).* The plant grows wild from the seaboard to the Mississippi, if not farther to the westward. It thrives on corn land, producing a long fine fiber suitable for many purposes for which hemp, and flax even, are employed. Mr. Angell's ramie machine, previously mentioned, is adapted for stripping this, as well as other vegetable fibers of similar growth.

There are a number of plants belonging to the *Hibiscus* growth which might be utilized for fiber with profit, and which would have been utilized in such a country as France, years ago. The swamprose mallow is the most prominent example, experiment having already proved its value and utility.

Farmers will do well to look into this question of fiber production. You can not all grow the same product, and make money out of it, whether it be wheat, sugar beets or wool, but you can study your own interests by adopting a system of diversified agriculture which will always insure something when prices of main products are "way down."

^{*} In a recent letter from Prof. S. Waterhouse, of Washington University, St. Louis, the name 'Bute' is proposed as a popular appellative for this fiber producing plant. The name is short and distinctive, and would not confound the plant with the India jute as the case at present, notwithstanding the prefix 'American.' — Indiana Farmer.

NEW LAWS.

FISH LAW.

ACT to authorize the appointment of a Co for the State of Indiana, defining his dutie priation to defray the expenses thereof.

[APPROVED MARCH 26, 18

KTION 1. Be it enacted by the General Asser a. That the Governor, immediately after act, shall appoint a suitable person (who State of Indiana) to discharge the duties I shall be known as the "Commissioner o . hold his office for two years, subject to r for incompetency or other cause, that v roper person to longer hold the office. cc. 2. It shall be the duty of said Commisous lakes, streams and water courses in th ther they can be rendered more produc also what measures are desirable and e ct either in propagating and protecting th uent the same; or, in the selection and 1 ies of fish therein, (or both); said Comm e into and test the best modes of the arin the various waters of the State, and she nd the producing of the fish, fish eggs or s ry, for said waters, and the propagation of x. 3. It shall be the duty of the Governo aid office that may occur by reason of de-

ec. 4. That there be, and is hereby, appleys in the State treasury, not otherwise a thousand dollars, to be expended under unissioner for the purposes aforesaid, and

sary expenses incurred by him in the discharge of his duties as such Commissioner, which sum shall be paid to him by the Treasurer of State, on the warrant of the Auditor of State, and which warrant therefor shall be issued on the certificate of said Commissioner that the same, or any part thereof, is necessary to carry out the objects and purposes of this act.

SEC. 5. Said Commissioner shall, before any warrant is issued to him for any money from the State treasury, execute to the State of Indiana his bond in the sum of two thousand dollars, with one good and sufficient freehold surety, resident in this State, conditioned for the faithful performance of the duties of said office, and proper expenditure of all moneys that may come into his hands as such Commissioner, which bond shall be subject to approval of the Auditor of State and filed in his office.

SEC. 6. Such Commissioner shall report the result of his investigations, experiments and labors to the next General Assembly succeeding his appointment, which report shall also embrace all necessary suggestions and recommendations he may deem proper to increase the efficiency and value of fish culture to the citizens of this State.

SEC. 7. That said Commissioner shall have and receive for his services the sum of three hundred dollars, to be paid out of any money in the State treasury not otherwise appropriated, in quarterly instalments, on the warrant of the Treasurer of State, in the same manner and upon the same vouchers as other officers of the State are paid, and the same shall be all the compensation that he shall be entitled to receive from the State.

DOG LAW.

AN ACT to Protect Sheep Husbandry, to Regulate Matters Connected Therewith, to Provide for Registering, Taxing and Killing Dogs.

[APPROVED APRIL 13, 1881.]

SECTION 1. Be it enacted by the General Assembly of the State of Indiana, That any person who shall own or harbor an animal of the dog kind, shall, on or before the 1st day of April, 1882, and each year thereafter, on or before the 1st day of April, shall report the number of dogs owned or harbored by such person, which exceed the age of six months, to the Township Trustee of their respective townships, who shall register and number the same to the proper owner, with a brief description of each dog by sex, color and breed;

and also furnish the owner with a metallic tag, with nun year to correspond with the register, which said owner shat to the neck by a collar; for which the owner shall pay the one dollar for a male and the sum of two dollars for a fen owned, kept or harbored by him or them, and for each d than one, the sum of two dollars each; which shall be knodog fund.

SEC. 2. It shall be deemed unlawful for any dog to run without collar and tag, as provided in this act; and it deemed lawful for any person to kill the same. Provided, a no tag shall be used or worn by any dog other than the ones issued by the trustee, and any attempt to evade this I shall be held to be a misdemeanor, and be punishable by not more than twenty-five dollars. Provided, also, That ir the loss of any tag the Trustee shall issue a duplicate therecaum of ten cents, upon application therefor and satisfacto furnished that said tag has been lost.

SEC. 3. The Constables of the several townships and tow several counties of the State of Indiana, shall proceed t dogs, on and after the 1st day of April, 1882, which shall I at any time thereafter without collar and tag as herein p and the Trustee, on information given by any citizen of any so registered and tagged, shall issue a written notice to a stable in his township to kill said dog; and it shall be unla the Trustee to divulge or make known the name of any giving such information, and he shall be liable to a fine such offense in any sum not exceeding twenty-five dollar person who shall maliciously injure or kill, or any person w steal, take and carry away any dog which has been duly re and is wearing a metallic tag, according to the provisions of shall be deemed guilty of a misdemeanor, and upon convi fined in any sum not exceeding two hundred dollars, to wh be added imprisonment in the county jail for any term not ing thirty days. Provided, That in all cases where such dog jured or killed while off the premises of their owners, and en committing damage to the property of any other person t of the owner of such dogs, the above provisions and penalt not apply.

SEC. 4. Any Constable who shall fail to use diligence to dog after such notice, shall be fined in any sum not extwenty-five dollars for each offense. Such Constable shall fifty cents each for all dogs killed under this act, to be paithe dog fund.

SEC. 5. All money derived from the registration of dogs and fines under this act, shall constitute a fund known as a dog fund, for the payment of damages sustained by the owners of sheep maimed or killed by dogs within such township. And each Township Trustee is directed and required to collect the fines annually from the several Justices of the Peace of his township, and to hold the same for such puposes, except so much as may be necessary to carry out the provisions of this act, as follows: Twenty-five cents to the Trustee for each registry, fifty cents to the Constable for each dog killed. Provided, That the owner of sheep killed or maimed by dogs shall report such loss to the Trustee within ten days from the time thereof. The Trustee shall register such losses in the order that they are reported, which order shall be observed in the payment of losses when adjusted. Provided, That no person shall receive pay for sheep killed or maimed by a dog owned or harbored by himself. And provided further, That the fund provided for in section four of an act of the General Assembly of this State, upon this same subject, approved March 2, 1865, on hands with the several Township Trustees in this State, shall, when this act shall become operative, be added to the fund created or to be created under the provisions of this act; and the claimants under the provisions of said act of 1865 shall be entitled to payment where the same has not already been made out of such consolidated fund, in the order of their priority, and when it shall so happen on the first Monday of October, of each year, in any township, that said fund shall accumulate to an amount exceeding fifty dollars, over and above orders drawn against the same, the surplus above the said fifty dollars shall be paid and transferred to the school revenue of the township, and expended as a part thereof for tuition.

SEC. 6. All laws providing for the taxation of dogs, and all laws or parts of laws in conflict with the provisions of this act are hereby repealed. *Provided*, That no tax levied in accordance with the provisions of any law existing prior to the taking effect of this act shall be rendered invalid.

LAW ON FERTILIZERS.

[In force from and after June 1, 1881.]

SEC. 1. Before any one shall sell or offer for sale any commercial fertilizer, he shall furnish the State Chemist with a package of each kind he intends to deal in or offer for sale, with an affidavit that the sample is a true and fair sample of that he intends to offer for sale.

- SEC. 2. The Chemist shall make analysis of such samples, and certify to the contents, constituents, elements and per cent. of each in same, name of manufacturer, and the dealer shall place on each package offered for sale labels giving such analysis.
- SEC. 3. All packages offered for sale are required to be labelled by these labels, furnished by the State Chemist only, in packages of not less than five hundred, at a nominal price.
- SEC. 4. Any one offering for sale packages of any commercial fertilizer not having this label thereon, shall be fined fifty dollars for the first offense, and one hundred dollars for each subsequent offense.
- SEC. 5. The professor of chemistry at Purdue University is constituted a State Chemist; and commercial fertilizers are deemed to be every substance manufactured and sold for fertilizing purposes, except such as land plaster.

[Fortunately this act has no repealing clause, and the act passed in 1879 stands to cure a very weak place in the new act, viz: The new act provides no penalty for affixing labels not truly giving the constituent parts of fertilizers, but the old act provides a severe penalty for this, and so the two acts make a pretty strong law—one, we think, that will afford farmers ample protection against fraudulent fertilizers.]

ROAD LAW.

ABSTRACT of the New Law Establishing the Election of Township Superintendents of Highways—Abolition of Supervisors and Road Districts.

The new road law enacted by the Legislature provides for the election, in every township in the State, on the first Monday in April, 1882, and every two years thereafter, of a Superintendent of Roads, who shall have charge of the roads within his township, of all of which he shall have charge both for construction and repair. He shall also execute all orders of the Board of County Commissioners concerning the change, location and vacation of any highway in his township, and shall have charge of all funds for road or bridge purposes. A road poll tax of two dollars is to be assessed upon every able-bodied man between the ages of twenty-one and fifty years, and the County Commissioners shall also levy a tax, not exceeding twenty-five cents on the \$100, on all property in the township subject to State taxation, except that property in incorporated towns shall be exempt from such tax. The Township Super-

intendent shall put all the roads in his territory in as good order as possible during the months of April, May and June of each year and make such ditching, draining and embankments, and build such bridges and culverts as shall seem to him prudent and best to construct a road not less than eighteen feet in width, and when material is at hand may cover nine feet of the same with gravel or any other substance which will make a hard surface, expending all the available means in his hands by the 15th of November of each year. He shall also cause all roads to be mowed at least twice a year, in August and November.

The work is divided into "extraordinary," which must be done during the months of April, May and June, and "ordinary," which must be done between April 1 and November 15, and when the citizens of any township contribute work or money to make any ditch, drain, embankment, or to gravel any such road, the Superintendent shall contribute an equal amount, if he has the means at hand for this purpose. The Superintendent shall appoint at least one roadmaster in each township, and as many others as he may deem necessary; such roadmaster to employ laborers, mechanics and teams, at specified wages usual in the township for such work; such employes to work ten hours a day, the roadmaster being held responsible for the manner and quality of such work. He shall have the power to discharge any hand employed, and shall give his order on the Township Superintendent, which shall be a sufficient voucher. The roadmaster is to receive one dollar and fifty cents per day, of ten hours, and the Superintendent two dollars per day. The Superintendent may let out all work over twenty-five dollars by contract, with power to reject any or all bids.

Any person who shall injure any dam, drain, embankment, ditch, or other construction made for the protection of any highway, or injure or deface any guide-post or inscription, or hinder passengers by obstructing any highway or bridge, or who shall fail to keep to the right hand when meeting another vehicle, shall be subject to a fine of five dollars, and it is made the duty of the Township Superintendent to prosecute the same when information is conveyed to him.

The Superintendent is authorized to enter upon any land adjoining the highway and take any necessary material for the construction of said highway, for which any person aggrieved has action against the township, the methods for the determination of which are fully set out.

It is made the duty of the owner of any land through which any highway runs to remove all obstructions as soon as knowledge of the same comes to him, for which he will be entitled to reasonable compensation.

NEW LAWS.

The office of Supervisor of Roads is abol are made incumbent upon the Township St are to be permitted to work out their pol the Superintendent. The law contains no

DRAINAGE LAW

ABSTRACT of the New Law

This act establishes a new system of pr wet lands; provides that petitions for ditcl cuit Courts; that the Court appoint two c the County Surveyor, shall serve for three mission in each county, and have control c under the surveillance of the Circuit Cour

OBITUARY.

As a frontispiece for this book, the familiar fac James D. Williams, one of the early ex-Presidents of Agriculture, will be recognized. The pioneer, farr and philanthropist, departed this life at 12:30, noon, vember 20, 1880, at the age of seventy-two years, te four days.

As beautifully expressed by J. B. Maynard, of the Sentinel:

He died full of years and full of honors. He died spected. He died in office, the highest within the gif citizens. He died

> "Like one who wraps the drapery on his cou-About him and lies down to pleasant dream.

Governor Williams lived right, and when the sum found him ready, for he wrought

> "With human hands the creed of creeds, In loveliness of perfect deeds."

We are inclined to the belief that Governor Wiltaken by surprise. He was not long confined to hi disease became more firmly seated, there were prepatches to the soul, that the silver cord would soon to golden bowl broken. He had ample time to revie contemplate the future, to remember all the friend around him fall like leaves in wintry weather—wife and to contemplate the bliss of reunion. He did not nor yet at the dawning, but at high noon—just a crossed meridian, his soul took its everlasting fligh abodes of rest. He did not die at a time when the

OBITUARY.

in emerald beauty, when flowers are blooming, wh singing, and the brooks go laughing to the sea, nor fields are ready for the harvest; but he died when wrapt in a winding-sheet of snow, symbolizing death ing that the year 1880 was soon to yield up his seep be a fancy, but winter seems to be the most appropr death to reap his harvest. Then the trees are bare; bird and bee is hushed, and the winds go wailing clouds; the earth is at rest; the seasons have fulfilled and the old, who have fought the battles of life through and ten years or more, may take their silent chamber of death with less regret than when the earth is rol beauty, and the sunshine and the balmy air invite the the young to go forth and enjoy the benedictions of death claims all seasons for his own, and in the e mournful prerogative, has summoned Governor W from his high office and important duties, to a higher existence.

His death will be mourned by the people of Indiana, and society have sustained a loss not easily repaired good fortune of but few men to possess characters combined in so large a degree integrity and efficient and courage, kindness and firmness—virtues which we membered by the people of the State whom he has ser official capacities for more than forty years, retaining reputation not only unsullied but growing brighter we years.

To the student of biography the life of Governor J liams can not fail of being largely profitable. His purvate life has been marked by an inflexible fealty to treconvictions, unswervingly maintained. With such the superstructure of character must always be imposed and death a triumph. It would require a volume the character of the dead Governor and bring out its traits. But now, while the great heart of Indiana sorrow and every word referring to the sad event is a we can only say as a fitting conclusion of this tributhat

"Doubtless, unto him is given,
A life that bears immortal fruit,
In such great offices as suit
The full-grown energies of Heaven."

Immediately on the announcement of the death of Gov. Williams, a meeting of the State officers and citizens was called to arrange for giving expression to the high esteem in which the deceased was held, and the loss so keenly felt by his fellow citizens. A committee on memorial resolutions was appointed to report at an adjourned meeting in the legislative hall, which was largely attended. The committee on resolutions, through their chairman, Judge Walter Q. Gresham, of the United States Court, reported the following

Memorial:

The committee appointed to draft resolutions expressing the sense of this meeting, respectfully present the following memorial:

We meet as citizens of a great State to make known our sorrow for the death of Hon. James D. Williams, whose life, and service of the State as its Chief Magistrate, were simultaneously ended on last Saturday. We also come to record our estimate of his character and worth as a man and as a servant of the people.

Governor Williams was born in Pickaway county, Ohio, January 16, 1808. At the age of ten years he came to Indiana with his father's family and settled in Knox county, where he resided from that time until his death. He grew to man's estate upon his father's farm and bore his full share of the toil incident to the farming life of that period. In the midst of his labors he began early in life to take a deep interest in public affairs, and as early as the year 1839 he commenced his official life as a justice of the peace. He resigned this position to take his seat in the lower branch of the State Legislature, to which he was elected in 1843. From that time until he was elected to Congress, in 1874, he served almost continuously either as a Senator or member of the lower house of the Legislature. He remained in Congress until he was elected Governor, in 1876, and his official career was terminated by his death, in this city, at thirty minutes past twelve o'clock in the afternoon, on Saturday, November 20, 1880. In addition to his services as magistrate, legislator and Governor, he was President of the State Board of Agriculture four years, and an active member of the Board sixteen years. His entire official life covered a period of forty-one years.

How he lived in the midst of his family may be more fittingly set forth by those who will soon testify to his eminent private virtues in the presence of those friends and neighbors amongst whom he passed the greater part of his life. It is not improper to say, however, that after the death of his wife, in the month of June last, Governor Williams was a changed man; and when disease admonished him that the end was near, and the final summons came, he obeyed the call and turned his face toward the grave as one who was going to meet his best friend.

There is profit in the study of the life and career of such a man. Governor Williams was trained in the severe school of early western pioneer life, and he belonged to a class of men who are rapidly disappearing from our midst. The arduous conditions in which they were born and reared can never be reproduced. Their characters were marked by a sturdy manhood, a frankness of manner, an unfeigned hospitality, a gentleness of disposition, a steadfast devotion to principle, a warmth and permanence of friendship, and a sympathetic tenderness which was the fruit of the peculiar relations of backwoods life. If the modern facilities for intellectual training were lacking, there was an equality of condition and opportunity and a community of hardship which gave ample scope for the play and discipline of the affections, and for the development of those sterling and unselfish qualities which are the best part of the highest type of man. The private life and official career of Governor Williams were distinctly marked by the virtues which grew out of the surroundings of his early life. His stature, form and physiognomy, in which many of the striking qualities of his mind revealed themselves, attested the arduous labors of a youth and early manhood passed amid the dangers and privations of a frontier home. He never lost his fondness for the soil, nor for the men who till it. And in the midst of his most pressing official engagements it was his wont to seek a respite from public care in the active management of his farm at Wheatland.

Governor Williams' fidelity to his official duty was never questioned, but he never forgot that he belonged to the great body of citizens who pay the taxes and whose highest duty and pride it is to contribute to the work of developing and building up the material prosperty and promoting the intellectual advancement of the people. While a young man he evinced a taste for public affairs and an aptitude for dealing with them which are exceptional even among men whose special training naturally evokes these qualities. Discovering this, his neighbors called him to public station, and his services in the State Legislature and in Congress for so many years were always marked by the highest sense of his reponsiblity to his constituency, and an undeviating fidelity to the public interests. He never permitted the formalities of official station to restrict the freedom of his intercourse with the people, and while he was Gov-

ernor the humblest citizen of the State could approach him at all times without embarrassment.

It is worthy of note and emphasis that Governor Williams was a man of singular purity of character. His private and domestic virtues are attested by all who enjoyed the intimacy of his personal friendship, and his official integrity was never blurred by even an imputation of dishonesty. His conception of official station was that it was a public trust, to be administered with the same care, prudence and frugality which a wise man would bestow upon his private affairs. It is to his honor that at a time when the tendencies in official station were in the direction of a lavish and careless expenditure of the public moneys, he used his influence in Congress to check those tendencies, and to expose existing abuses. As Governor, he evinced the same watchful care of the public interests, and though a warm partisan no alleged party necessity, no considerations of personal friendship, could swerve him from what he believed to be the path of duty.

It has been said of him that he was too liberal in the use of the pardoning power. The records of his office disclose the fact that the last act of his official life was the granting of a respite to a man condemned to die. That he was too merciful in dealing with his erring fellow-mortals will not be remembered against him by the Merciful Judge in whose presence he now stands.

Measured by the best standards, Governor Williams was a worthy citizen, a faithful public servant, a good man. His virtues were many and conspicuous.

"And e'en his failings leaned to virtue's side."

W. Q. GRESHAM,
SOLOMON CLAYPOOL,
THOMAS F. DAVIDSON,
AUGUSTUS N. MARTIN,
WM. P. FISHBACK.

Hon. William H. English

arose and seconded the adoption of the memorial, at the same time making the following remarks in relation to the deceased:

It was my good fortune to know and be on friendly relations with Governor Williams for a great many years. I may say I knew him intimately for over the third of a century. I met him for the first time in this city; it was in the winter of 1843—thirty-seven years ago. Indianapolis was then a comparatively small place, not larger, probably, than Franklin or Anderson is now.

There was not a completed railroad in the State, and it took three or four days' horseback riding to reach here from such counties as

ox and Scott, the respective residences of G l myself. It was the occasion of the meeting event then apparently considered of far mo people than it seems to be now. I came as a c he House of Representatives. Governor Willi entative of the people of Knox county. I was e I the friendly relations then established were cohe end of his life. It is not as a matter of for w that I join in these ceremonies. I join wi ing all the respect I can to the memory of I searing this public testimony that I knew his e man in all the relations of life. He conti people of Knox county in one or the othe rislature for fifteen years, showing conclusive which he was held by those who knew him ently represented the people of his district in (t position was called to be the chief execut te.

Vhen I say he represented the people, I mean best sense, for he was literally of the people ly devoted to their interests—himself a hard soil-a true type of that class of sturdy pio rts and strong arms have made Indiana the gre te it is to-day. The masses of the people di es in honoring him, for he was their true re not a man learned in the lore of books-1 a of culture—but he was a man of most exhis mind was well stored with useful and 1 1: and what is more than all, and better that aid to be God's noblest work, an honest man. low, that his long and useful life is ended, and ed, it can be truthfully said of him that in as ants were not always faithful, he served the dic trusts for a quarter of a century, without er ever being called in question in a single began the world under the most adverse c his own efforts won his way to position and pobrough a long series of years, and rising h il he died the chief officer of his State, mus d qualities; and his pure and stainless private public record, demand that his memory shall his countrymen.

Ex-Governor Hendricks

then arose and offered the following remarks:

MR. CHAIRMAN.—I can not say much upon this occasion. Governor Williams is so well known to the people of Indiana, that much need not be said so far as they are concerned. I believe that no man living has served the people of the State in so many important respects for so long a period, commencing, as I perceive, by the memorial, in 1839, almost continuously. He was a public servant until the day of his death, more than forty years—not all the time in public service, but for the greater portion of that period, and what gives emphasis to this circumstance, is the fact that for the most of the time he was selected by his immediate neighbors, among whom he was raised, and with whom he had all the relations of life. Such a man, so indorsed, is worthy of the respect which we pay him to-day. It is a great loss when such a man dies, and I feel that the public service suffers in his death. I wish simply, in rising, to express my profound regard for his character, and for the excellence of his public service.

Major J. W. Gordon.

Mr. Chairman.—There are many here who know more of Governor Williams than I do. I made his acquaintance when I sustained a very humble relation to the General Assembly in 1851-2, I was then in the House of Representatives, a reporter for one of the city papers. He was a member, I do not know, whether of the Senate or House, but connected with the public service. At that time he was a member of an agricultural association, gotten up by Governor Wright, for the purpose of communicating the observations of the thoughts of the farmers who were connected with the administration of the government. He took an active and earnest part in all the meetings of that agricultural association, and was an intelligent member, communicating much valuable information in regard to stock raising and all of the branches of farming, which he acquired by experience and a long course of observation. His intercourse was uniformly kindly to all members of the association, and especially to its officers and attaches, of which I was one. I shall never forget his generous kindness to me in that relation. When afterward I met him in the General Assembly, and renewed my acquaintance with him, and found him the same kindly disposed man-generous even to his adversaries, and claiming but very little for himself but the commonest courtesy from them, and satisfied with this common courtesy. I never, as has been often said to-day, heard his honesty or integrity questioned. His political system may have been wrong in many important respects, but he was a sincere beliver in the creed which he had adopted for life and for his political action, and that is all we can expect or ask at the hands or life of any man. A sincere man, devoted to his own convictions, honestly endeavoring to crown them with success in political life, is always entitled to the respect of every other sincere man, however widely their creeds may differ. When a generation of men shall come—as it will come in the State of Indiana—that will believe that economy will be subserved by lavish expenditure of money in building a temple to preserve the memory of the great who have served the people, Governor Williams' name, and memory, and face and monument will be entitled to a conspicuous place in that temple.

General Ben. Harrison,

Governor Williams' opponent in his race for Governor, then arose and said:

Governor Williams' name and my own were associated in one of the sharpest political contests, perhaps, that has been witnessed in the State, and yet to-day, sir, as I looked upon his quiet face it was a pleasant reflection to me that, so far as I know, this contest had developed no personal unkindness to me. If the deceased Governor ever at any time uttered an unkind word of me, it never reached my ears. I am sure that in the entire campaign no one heard from my lips any word of personal bitterness or unkindness. I thought to-day that there was a lesson in this for all of us—that there comes a time in the lives of all men, particularly with those who live nearest, when any act or word of bitterness or spoken slander becomes a bitter memory. I am glad to be able here today to mingle, with those who stood nearer to him than I did, my own expressions of sincere regret at the death of Governor Williams. The Constitution of Indiana provides that the Governor shall hold his office for four years. That, sir, is written of the officer—not of the man. God appoints the tenures of human life, and their length is controlled by his unfathomable will. It seems to us inopportune, this dying before the official term was closed; that he should have been deprived of the opportunity of speaking the farewell word of counsel to the Legislature of Indiana and handing over to his successor the insignia of his office. But we don't judge these things rightly, I suppose. I never quite liked in the cemetry or even in the hall below this type of the broken shaft. We shall know sometime, I expect, that every life has been complete. If there were nothing to be said of Governor Williams' relation to the public affairs of Indiana at all, his life would be an honorable and

successful one. I have always felt that the successful pic of those who pressed toward the edge of civilization in days and made a successful fight with the wilderness, an the pillared forest and made of it a meadow, and of the me field, and who built up around him and for himself an family that God gave him, a competence, elevated them, life was an honorable life and worthy of mention in any This work Governor Williams has done conspicuously. 1 to me a very touching sight. It is what has been alluded memorial which you have heard. For fifty years he had ! that wife who had preceded him a few months to that opens not outward. We are often apt to think of this re that of one in which the wife leans upon the husband. I do not rightly describe it when we think of it so. It is bt aspect of that most tender relation in life. Undoubtedly wart man who lies dead in our midst to-day knew what lean on the wife, and it is tender and touching beyond e to-day to feel that when that support was withdrawn the bowed himself, and awaited not regretfully the coming With the sincerest heart I unite to-day with those who k better, in this testimonial of respect to his memory.

Hon. W. W. Woollen,

Secretary of the meeting, related the following incider life of the deceased:

I don't rise, sir, to pass an eulogy upon our dead Gove simply to relate an incident that happened under my obtand which will illustrate his love of children, and their over him. This characteristic of our departed friend has touched in the memorial offered by the committee, nor b the gentlemen who have preceded me.

It was my fortune in last April to accompany Governor in his trip to the Gulf. At every point of importance a road he was received by delegations of people, both as off as private citizens. When he reached the city of Mobil met by the recorder, who is the chief executive officer of by the president of the Cotton Exchange and by the president of the Cotton Exchange and by the president of Trade, who escorted him to his quarters at the House. After dining he held quite a levee in the parlochotel, where many of the leading people of the city cal him. While he was engaged entertaining his callers, a ye some twelve or fourteen years old, called at the office of with a large bouquet in her hands, and asked for him. Thinking she was a flower girl, anxious to dispose of her

essayed to have her leave the hotel without seeing the Governor, but this she would not do. She came into the parlor where he was seated, surrounded by a number of gentlemen and ladies, and approaching him said: "This is Governor Williams, I believe." "Yes, my daughter," he replied. She then presented him with her bouquet, which he received with the grace of a courtier. She then asked him if he did not remember receiving a bouquet when he was at Laporte during the canvass of 1876, from a little girl who was sick. He replied that he remembered it well. She then said: "I am the little girl who sent it to you, and the kind words you sent me in return caused my mamma to be very anxious to see you." "Where is your mamma?" asked the Governor. "At home," replied the girl, giving the street and number. "Your mamma shall see me," said the Governor, and he arose, excused himself to the ladies and gentlemen present and left the room. On reaching the street he called a hack, and with the little girl went to the home of the mother. I think this incident goes far to illustrate one trait in his character which has not hitherto been spoken of.

Ex-Governor Baker.

I desire to say a word in this tribute of respect to our deceased friend. I, too, have known him a little over twenty-five years, and always found him to be a kind-hearted, honest man. I presided over the Senate at the time he was a member, and our relations were always most cordial. He treated me with justice and kindness. He was not a learned man but not an uneducated man. I mean by that, he was a man who knew how to think. He had learned the art of thinking, but had he been an educated man he would have been a good lawyer. He had a discriminating mind. He was one of the best parliamentarians I ever knew; hardly ever made a mistake. He was a man of a strong, generous, emotional nature. I have seen him on several occasions when he could not control his emotions. I was with him a few weeks ago at the house of a friend when some songs of the little folks touched him so that he filled up and could not speak.

Rev. Dr. W. A. Bartlett,

Pastor of the Second Presbyterian Church, offered the following beautiful testimonial to his memory:

"I came in here without any invitation, simply as a citizen of the State of Indiana, to bring the tribute of my sympathy to this occasion. When a man that has been so trusted by the people as this record recites, dies, there is one remark to be made upon his

services—that his life is an evidence of certain hidden power. position, his sustained position, moving in an increasing climax to the close, is an indication of that. There is power somewhere. the Chief Magistrate who has gone, it was not in a college education, it was not in any early advantages in the refinements of culture, in the association and intimate acquaintance with large libraries. And hence men of other lands and of other days might be baffled to account for it, but as American citizens we know just whence he came and how he was begotten into the confidences of the people. He is a native and a natural product of American institutions. It is the grandeur of this Nation of which we are a part, and of this State, which is so honorably related with its sister States in bearing the ægis of the Government. It is an honor, I say, that we can take the humblest citizen and make him fit for the highest trust. of the pathos of the beginning of the life of this plain man working for twenty cents a day to pay for his father's coffin. Cincinnatus was found at the plow when his promotion came. Our Governor, we may say, has never left the plow. It is a credit to the institutions of the country that you can take the plain workingmen, that you can take the early suffering pioneers, men who can only make headway by virtues that are rugged and severe and stern, virtue that labors with unremitting toil, the ingenuity that comes from making much out of little, building your house with a hammer and a saw rather than with the refined implements of a later day. I say it is the grandeur of a Nation that can take up such a man and place him in offices of confidence and of trust, and it is the seal of approbation, when at his death his neighbors, his friends, those who have differed with him in many matters can bear uniform testimony that in an age that not has been marked with great integrity, he was integral, whole, untainted, sound, honest. This is much. Why, think, of his life, begun when Napoleon Boneparte the First reigned, before the battle of Waterloo. He was born before the beginning of Queen Victoria's reign. Let you and I glance over the map of the world and pick up Kingdom after Kingdom, and mark the revolution and the changes since. Mighty inventions, wonderful changes in the view of every question, religious and political. But Napoleons may come and go, and the ages cycle on, but there never will a day come that is so refined, when the sterling qualities of integrity and honest effort and purity of life will not be emblazoned on the highest escutcheon of any State."

Senctor, McDonald,

the Chairman, then said:

Fellow-Citizens:—In submitting for your adoption the memorial that has been presented by the committee after what has been said by the various persons who have seconded its adoption, and responded to its sentiments, there is nothing left for me except to simply add that Governor Williams possessed a character as open as the day. There was no mystery about it. It was one of great simplicity, resting upon the strong foundation of common sense, governed and controlled by the highest principles of right and justice, making one of nature's great chancellors, and these qualities will keep his memory long in the minds of the people of Indiana. The address and resolutions will be regarded as adopted unanimously, without any dissenting voice.

Hon. Albert G. Porter,

Governor-elect, offered the following:

Resolved, That a copy of the proceedings of the meeting be communicated to the family of the deceased, and that the proceedings of the meeting be communicated through the Governor to the Legislature.

Adopted.

The Chairman then said:

It is proper to state to the meeting that the arrangements adopted at the meeting last Saturday evening have been fully carried out, and at 5 o'clock this evening the remains of the deceased will be carried to his North Meridian street residence, and to-morrow at 8 o'clock, or near that time, the remains will be taken to the Union depot for the purpose of being transmitted to his home in Knox county, and this will be the last of the citizens' meeting in connection with these obsequies; and from this time forward all citizens who may desire to take a part in further respect to his memory while his remains are still retained in the capital, that they can do so by attending at those places.

On motion of Hon. W. H. English the meeting adjourned.

Methodist Ministers.

The following preamble and resolution were passed by the Methodist preachers' meeting of Indianapolis, regarding the death of Governor Williams:

WHEREAS, In the order of Providence, Hon. James D. Williams, Governor of Indiana, after a long and eventful life, has been called to pay the debt of nature; therefore,

Revolved, By the preachers' meeting of the Methodist E church of Indianapolis, that they do hereby express their for the high character and sterling integrity of Governor V during the period of his public life, and extend their symthe members of his family.

W. R. HALSTEAL

GEORGE L. CUR1 S. M. VERNON, Committee on Resolu

Governor Gray's Proclamation.

Indianapolis, Nov. 22. 1

State of Indiana, by His Excellency, Isaac P. Gray, Governor:

A proclamation announcing the death of Governor Ja Williams, and the removal of his body to his late home, i county, for burial. To the people of Indiana it is announce sincere regret that James D. Williams departed this life at h in this city, Saturday, November 20, having faithfully and 1 discharged the laborious duties conferred upon him until few hours of his death. Committees of citizens at the car charged with the duties of arranging for appropriate service city during to-day, and for the removal of the body to Knoz to-morrow. So far as urgent public business permitted, th of State have been closed to-day. It seems proper that du morrow and the day following, while the remains of our guished fellow-citizen and late public servant are in pro-Knox county, and while lying in state at the county seat, ar in progress to his late homestead, and while his neighbors than three-score years are paying their last tributes of respememory, and committing his body to its quiet resting placthat of his beloved wife, but lately deceased, we of the enti whom he has served, continue the expressions of our respthis end I recommend that, so far as public business will the offices of the State be closed until Friday next, recalling meantime the recent proclamation appointing Thursday s of thanksgiving and praise, and by operation of law as a ho be appropriately observed by ceasing from secular labors a ing to the Governor of all men, into whose presence our is magistrate has so soon been called.

Witness the seal of the State and my signature, at India [SEAL.] this 22d day of November, 1880.

By the Governor:

ISAAC P.

J. G. SHANKLIN, Secretary of State.

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